SAMSUNG

PDP-TELEVISION
(PLASMA DISPLAY PANEL)

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PICTURE IN PICTURE (PIP)
COLOUR WEAKNESS ENHANCEMENT MODE
MY COLOUR CONTROL
TELETEXT (OPTION)
SRS TRUSURROUNDXT
DIGITAL NATURAL IMAGE ENGINE

This device is a Class B digital apparatus.

- ***Screen Image retention***
  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- ***Height***
  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

- ***Heat on the top of the PDP TV***
  The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.
  This is normal and does not indicate any defect or operation failure of the product.
  However, children should be prevented from touching the upper part of the product.

- ***The product is making a ‘clacking’ noise.***
  A ‘cracking’ noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

- ***Cell Defects***
  The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

- ***Avoid operating the TV at temperatures below 5°C(41°F)***

- ***A still image displayed too long may cause permanent damage to the PDP Panel***

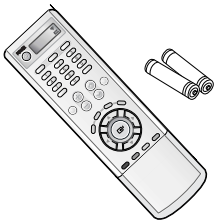
  Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.
  Playing a DVD or a game console may cause similar effect to the screen.
  Damages caused by the above effect are not covered by the Warranty.

- ***Afterimage on the Screen.***
  Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.
  To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images for a long time.

- ***Warranty***
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

Checking Parts

Owner's Instructions



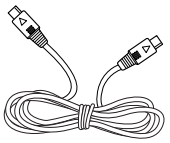
Remote Control/
AAA Batteries

Ferrite Core for
Side AV Cable

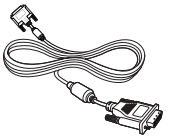
Power Cord

Antenna Cable

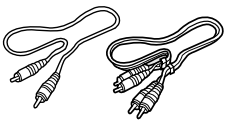
Sold Separately



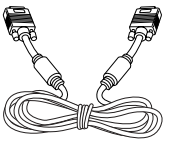
S-VIDEO Cable



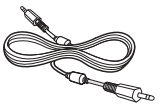
DVI Cable



Component Cables
(RCA)



PC Cable



PC Audio Cable

Speaker Wire

Ferrite Core (depending on the model)

The ferrite core is used to attenuate undesired signals. When connecting cables, attach this ferrite core to the cable near the connector.

When you connect Side AV cable to the AV3, first bind Side AV Cable round the ferrite core to secure it.

DNIe™ (Digital Natural Image engine) DNIe™

This feature bring you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, much detailed image to you.
DNIe™ technology will fit every signals into your eyes.

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Symbols

Press

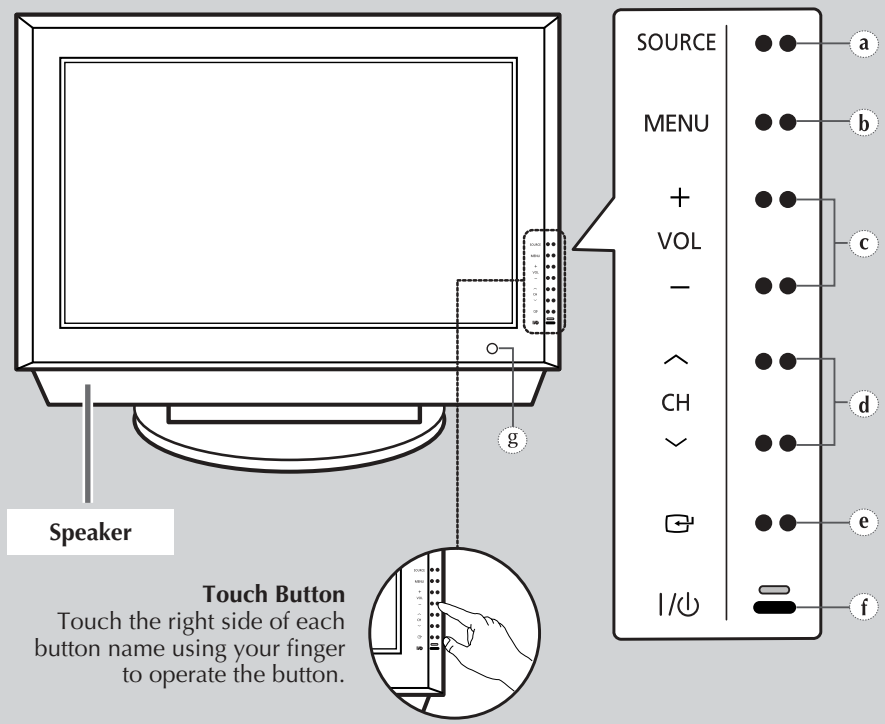
Important

Note

Your New Plasma Display Panel

➢ The actual configuration on your PDP may be different, depending on your model.

Front Panel



a) SOURCE
External input selection.

b) MENU
Menu display.

c) + VOL –
Volume adjustment.
Also used to select or adjust items on the on-screen menu.

d) ∧ CH ∨
Channel selection. Auto power On.
Also used to move up or down in the on-screen menu.

e)
Confirm your choice (Store or Enter).

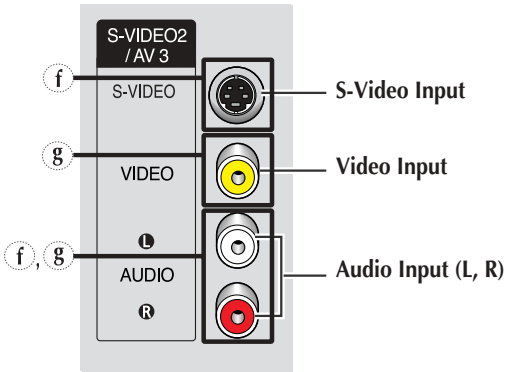
f) I / ⏻
Press to turn the PDP on and off.

Power Indicator
- Power Off: Red
- Power On: Off
- Timer On: Green

g) Remote Control Signal Receiver
Aim the remote control towards this spot on the PDP.

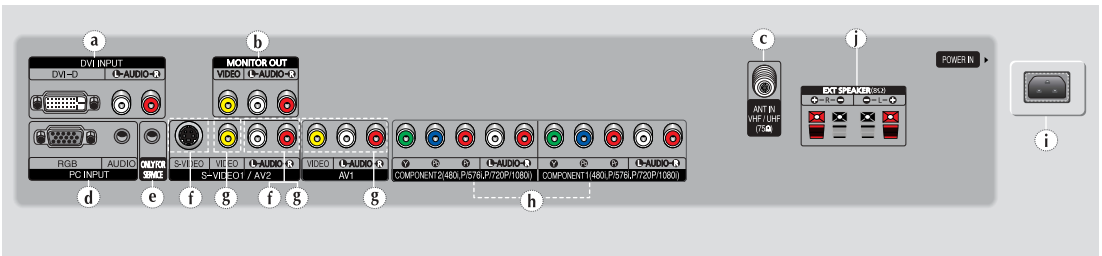
➢ The actual configuration on your PDP may be different, depending on your model.

Side of the TV



Rear Panel

➢ For further details about connection, refer to pages 55~59.



a) DVI INPUT (DVI-D / L-AUDIO-R)
Connect to the digital video and audio output jack for device with DVI output.

b) MONITOR OUT (VIDEO / L-AUDIO-R)
Outputs for external devices.

c) ANT IN VHF/UHF (75Ω)
75Ω Coaxial connector for Aerial/Cable Network.

d) PC INPUT (RGB / AUDIO)
Connect to the video and audio output jack on your PC.

e) ONLY FOR SERVICE
Connector for service only.

f) S-VIDEO1, S-VIDEO2 (S-VIDEO1 or S-VIDEO2 / L-AUDIO-R)
Video and audio inputs for external devices with an S-Video output, such as a camcorder or VCR.

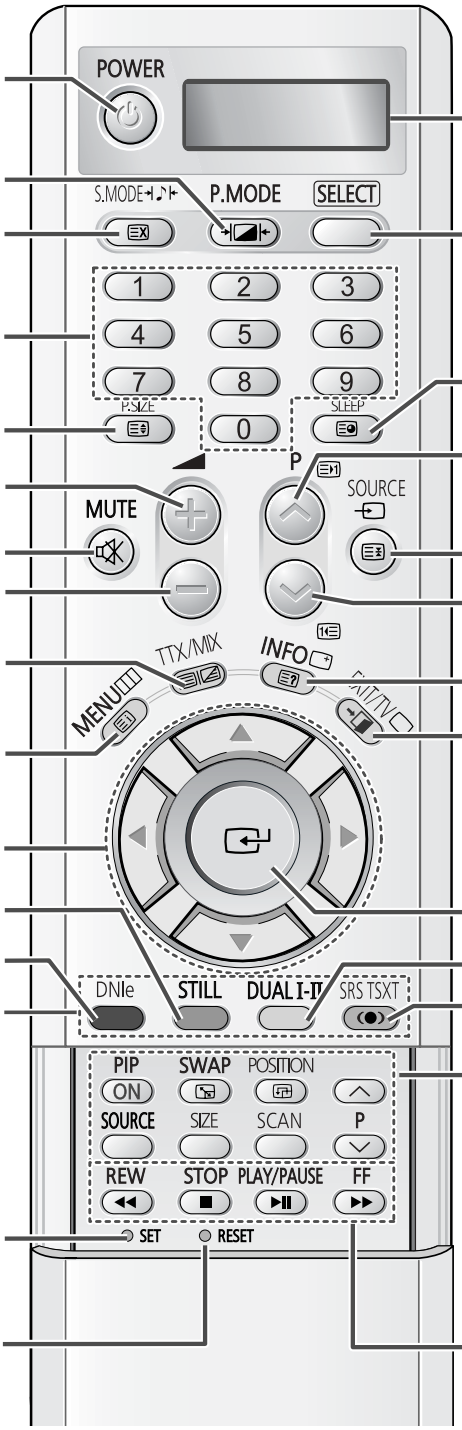
g) AV1, AV2, AV3 (VIDEO / L-AUDIO-R)
Video and audio inputs for external devices, such as a camcorder or VCR.

h) COMPONENT1, COMPONENT2
Video (**Y/Pb/Pr**) and audio (**L-AUDIO-R**) inputs for Component.

i) POWER IN
Connect the supplied power cord.

j) EXT SPEAKER (8Ω)
Connectors for external rear speakers.

Infrared Remote Control



TURNS THE PDP ON AND OFF

PICTURE EFFECT SELECTION

SOUND EFFECT SELECTION
TELETEXT CANCEL

DIRECT CHANNEL SELECTION

PICTURE SIZE/
TELETEXT SIZE SELECTION

VOLUME INCREASE

TEMPORARY SOUND SWITCH-OFF

VOLUME DECREASE

TELETEXT DISPLAY/
MIX BOTH TELETEXT INFORMATION
AND THE NORMAL BROADCAST

MENU DISPLAY/
TELETEXT INDEX

MOVE TO THE REQUIRED
MENU OPTION/
ADJUST AN OPTION VALUE
RESPECTIVELY

PICTURE STILL

DNIe ON/DEMO/OFF

FASTEXT TOPIC SELECTION

REMOTE CONTROL SETUP

IF YOUR REMOTE CONTROL IS NOT FUNCTIONING PROPERLY, TAKE OUT THE BATTERIES AND PRESS THE RESET BUTTON FOR ABOUT 2~3 SECONDS. RE-INSERT THE BATTERIES AND TRY USING THE REMOTE CONTROL AGAIN.

WHEN YOU PRESS A BUTTON , ' ' APPEARS ALONG WITH SELECTED MODE (TV, VCR, CATV, DVD, OR STB) AND REMAINING BATTERIES ON LCD

MAKE THE REMOTE CONTROL WORKS FOR TV, VCR, CATV, DVD PLAYER, OR STB

AUTOMATIC SWITCH-OFF/
TELETEXT SUB-PAGE

NEXT CHANNEL/
TELETEXT NEXT PAGE/

EXTERNAL INPUT SELECTION/
TELETEXT PAGE HOLD

PREVIOUS CHANNEL/
TELETEXT PREVIOUS PAGE/

INFORMATION DISPLAY

TV MODE SELECTION
EXIT TELETEXT
(DEPENDING ON THE MODEL)

CONFIRM YOUR CHOICE
(STORE OR ENTER)

SOUND MODE SELECTION

TruSurround XT
MODE SELECTION

PIP FUNCTIONS:
- PIP ACTIVATING OR DEACTIVATING (PIP ON)
- SWAPPING THE MAIN AND THE SUB PICTURE (SWAP)
- LOCATION SELECTION (POSITION)
- SOURCE SELECTION (SOURCE)
- SIZE SELECTION (SIZE)
- SCAN
- SELECTING THE CHANNEL OF SUB PICTURE (P ∧/∨)

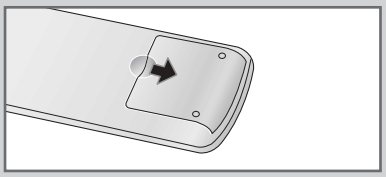
VCR/DVD FUNCTIONS:
- REWIND (REW)
- STOP
- PLAY/PAUSE
- FAST FORWARD (FF)

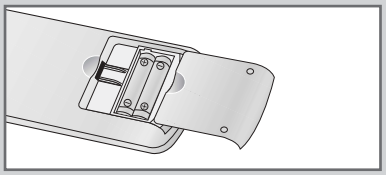
➢ *The performance of the remote control may be affected by bright light.*

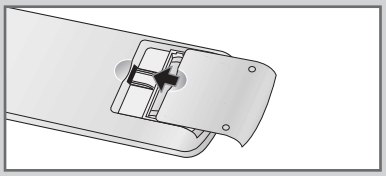
Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ***Purchase the PDP***
- ***Find that the remote control is no longer operating correctly***



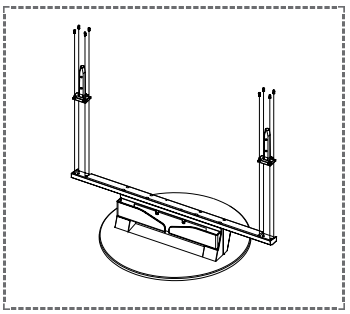




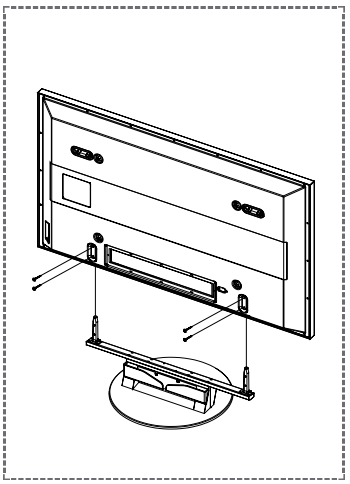
1	Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards and then pulling firmly to remove it.
2	Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities: ◆ **–** on the battery against **–** on the remote control ◆ **+** on the battery against **+** on the remote control
3	Replace the cover by aligning it with the base of the remote control and pressing it back into place. Do not mix battery types, i.e. alkaline and manganese.

Assembling the Stand-Base

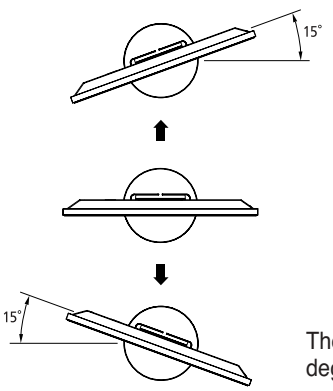
1	Assemble two support pins with the stand base and firmly secure both sides of the support pins using 8 screws provided.
2	Assemble the PDP with the stand and firmly secure the PDP using 4 screws provided.



➢ ◆ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always store the PDP upright.



(depending on your model)



The angle of the PDP can be up to 15 degrees left/right.

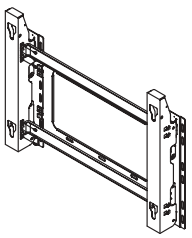
Installing the Display on the Wall Attachment Panel

Installation Notes

- Do not install the PDP on any place other than vertical walls.
- To protect the performance of the PDP and prevent troubles, avoid the followings:
  – Do not install next to smoke and fire detectors.
  – Do not install in an area subjected to vibration or high voltage.
  – Do not install near or around any heating apparatus.
- Use only recommended parts and components.

Mounting Kits (Sold Separately)

Wall Mount Bracket



Plastic Hanger

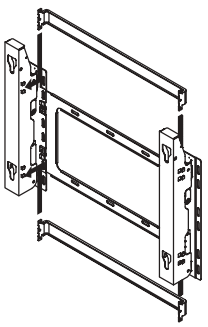
4 EA

Screws

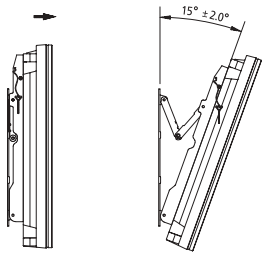
4 EA

How to Adjust Mounting Angle

(depending on your model)



The wall mount bracket is delivered separately. Please tighten the captive screw in the direction of the arrow after assembling the bracket.

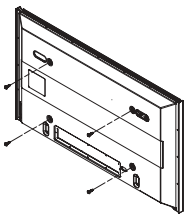


1	Secure the PDP to the wall mount bracket. (Please refer to the following instructions.)
2	Set the angle by pulling the upper end of the PDP attached to bracket in the direction of the arrow.
3	The angle can be adjusted from 0° to 15° by ±2°.

Installing the Display on the Wall Attachment Panel (continued)

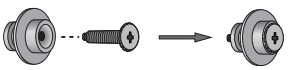
➢ The exterior of the PDP may be different than the picture.
(Assembly and installation of the plastic hanger is the same.)

1 Remove the screws from the back of the PDP.

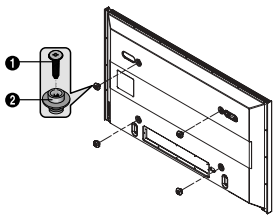


2 Use the screws and assemble the plastic hanger.

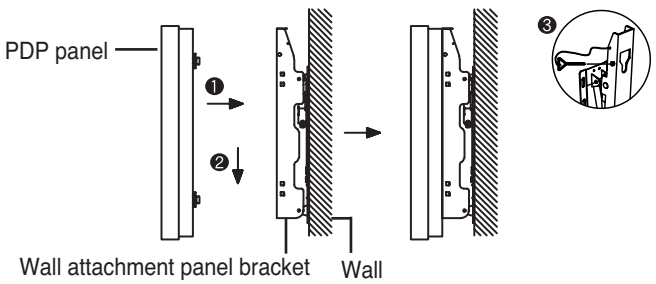
☛
- ◆ Please ask the installers to install the wall mount bracket.
- ◆ Please be sure to check if the plastic hanger is completely secured on both the left and right side after hanging the PDP on the wall mount bracket.
- ◆ Please avoid catching your fingers while installing and adjusting the angle.
- ◆ Please tightly secure the wall mount bracket to the wall to avoid injury from a falling PDP.



3 Tighten the screws of the plastic hanger to the back side of the PDP.



4 Put the 4 pegs on the PDP in the grooves of the wall mount bracket and pull down on the PDP (①) to secure it to the wall mount bracket (②). Tighten the screws as shown (③) so that the PDP cannot be separated from wall mount bracket.

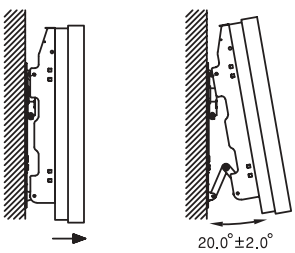


Connecting External Devices to the PDP

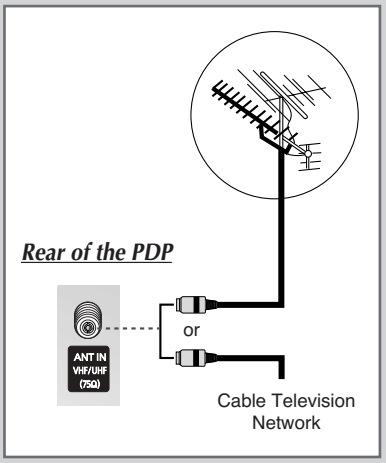
◆ To connect external devices such as a DVD or a Home Theater System to the PDP, please refer to following instructions:

1 Be sure to remove the safety pins underneath the PDP.
- ◆ If the safety pins are not removed, the angle cannot be adjusted. Any attempt to do so may cause damage to the PDP.

2 Pull out the bottom of the PDP (which has been attached to the Wall Mount Bracket) in the direction indicated by the arrows (refer to the illustration) until it clicks.
- ◆ Using the PDP After Connecting External Devices.
  Be sure to secure the PDP by inserting the 2 safety pins after readjusting the angle of the PDP to 0°.
- ◆ For safety, be sure to secure the PDP using the safety pins.
  If the safety pins are not used, the PDP may fall, causing serious injury.



Connecting to an Aerial or Cable Television Network



To view television channels correctly, a signal must be received by the set from one of the following sources:

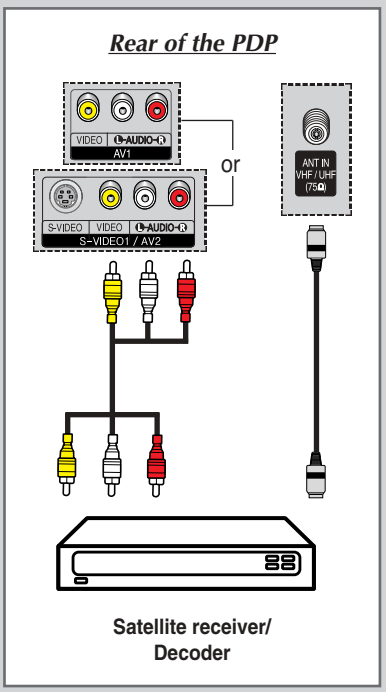
- ***An outdoor aerial***
- ***A cable television network***
- ***A satellite network***

1 In the first three cases, connect the aerial or network input cable to the ANT IN jack on the rear of the PDP.

2 If you are using an indoor aerial, you may need to turn it when tuning your PDP until you obtain a picture that is both sharp and clear.
For further details, refer to:
- "Storing Channels Automatically" on page 18
- "Storing Channels Manually" on page 19

➢ When installing or re-installing your PDP, be sure to use the supplied coaxial antenna cable. If you connect using a different coaxial cable, there is risk of noise or interference to the screen image. (You must not use another general purpose cable. Use the 3M/5M/7M cable supplied by Samsung.)

Connecting a Satellite Receiver or Decoder



In order to watch television programmes broadcast via a satellite network, you must connect a satellite receiver to the rear of the PDP. Also, in order to descramble a coded transmission signal, you must connect a decoder to the rear of the PDP.

Using a Coaxial cable

Connect a coaxial cable to the:
- Receiver (or Decoder) output socket.
- Television aerial input socket.

➢ If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:
- Receiver (or Decoder) to the VCR
- VCR to the PDP

Otherwise, connect the receiver (or decoder) directly to the PDP.

Switching On and Off

The mains lead is attached to the rear of your PDP.

1 Plug the mains lead into an appropriate socket.

Result: The Standby indicator on the front of the PDP lights up.

➢ The main voltage is indicated on the rear of the PDP and the frequency is 50 or 60Hz.

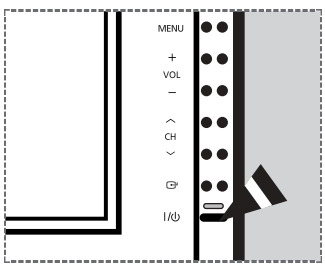
2 Press the " **I /** ⏻ " button on the front of the PDP (or **POWER** ( ) button on the remote control) to switch the PDP on.

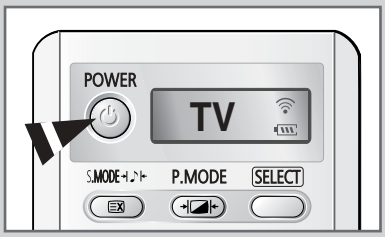
Result: The programme that you were watching last is re-selected automatically.

➢ If you have not yet stored any channels, no clear picture appears. Refer to "Storing Channels Automatically" on page 18 or "Storing Channels Manually" on page 19.

3 To switch your PDP off, press the " **I /** ⏻ " button again.

Front of the PDP





Placing in Standby Mode

Your PDP can be placed in Standby mode, in order to reduce the Power consumption.

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

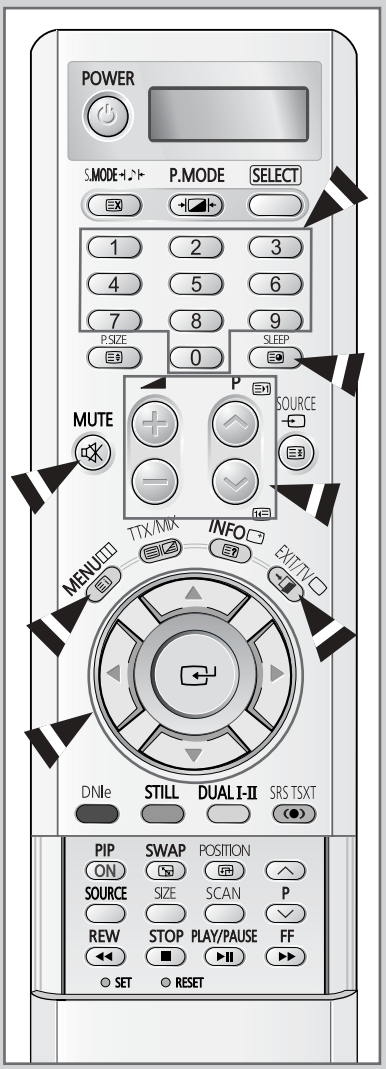
1 Press the **POWER** ( ) button on the remote control.

Result: The screen is turned off and the Standby indicator on the front of the PDP lights.

2 To switch the PDP back on, simply press the **POWER** ( ) button again or a numeric button.

➢ You can also switch on by pressing the **P** or button.

Becoming Familiar with the Remote Control



The remote control is used mainly to:

- ***Change channels and adjust the volume***
- ***Display the on-screen menu system***

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
	Used to display the next stored channel.	–
	Used to display the previous stored channel.	–
0 to 9	Used to display the corresponding channels. ➢ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	
SLEEP	Used to select a preset time interval (off - 30 - 60 - 90 - 120 - 150 - 180).	
	Used to increase the volume.	–
	Used to decrease the volume.	–
MUTE	Used to switch the sound off temporarily. ➢ To turn the sound back on, press this button again, or press the + or – button.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
	–	Used to: ◆ Display a submenu containing selections for the current menu option ◆ Increase/decrease a menu option value
	–	Used to confirm your choice.
EXIT/TV	–	Used to exit from the menu system and return to normal viewing directly.

Setting Up Your Remote Control

This PDP's remote control can operate VCR, Cable box(CATV), DVD, or Set-top box(STB), in addition to controlling the PDP.

➢ ***The remote control is not compatible with the TV manufactured by another company.***

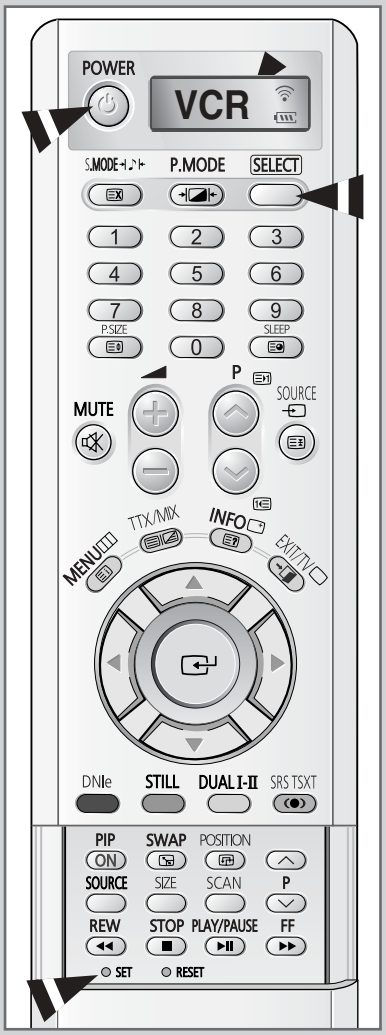
1 Turn off your VCR, Cable box(CATV), DVD, or STB.

2 Press the **SELECT** button.
Mode is changed whenever **SELECT** button is pressed.

3 Press the **POWER** ( ) button on the remote control.
The component you select should turn on. If it turns on, your remote control is now set correctly.

4 Once your remote control is set up, press the **SELECT** button any time you want to use the remote control to operate your VCR, Cable box(CATV), DVD, or STB.

➢ When your remote control is in the **VCR**, **Cable box(CATV)**, **DVD**, or **STB** mode, the volume buttons still control your television's volume.



➢ To program the cable receiver controls:

- Press the **SELECT** button to select **CATV**.
- Point the remote control at the cable receiver and press the **SET** button. Then press the company code number(s) for the component in page 66.
  Ex) If the component is manufactured by Oak, press 026.

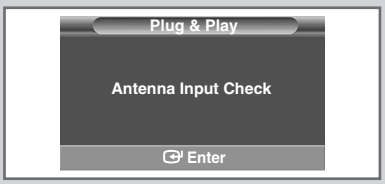
➢ To program the **VCR** controls:

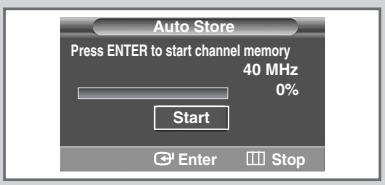
- Press the **SELECT** button to select **VCR**
- Point the remote control at the **VCR** and press the **SET** button. Then press the company code number(s) for the component in page 67.

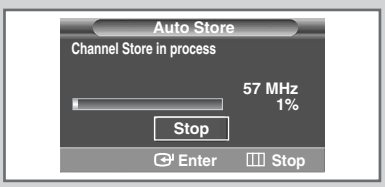
➢ To program the **DVD** controls:

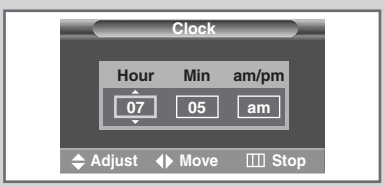
- Press the **SELECT** button to select **DVD**
- Point the remote control at the **DVD** and press the **SET** button. Then press the company code number(s) for the component in page 66.

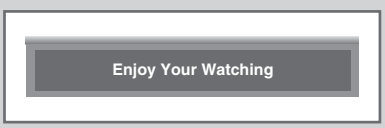
Plug & Play Feature











When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

1 If the television is in standby mode, press the **POWER** ( ) button on the remote control.

Result: The message **Plug & Play** is displayed, and then the **Language** menu is automatically displayed a few seconds later.

2 Select the appropriate language by pressing the ▲ or ▼ button.

3 Press the **ENTER** ( ) button to confirm your choice.

Result: The message **Antenna Input Check** is displayed.

4 Make sure that the antenna is connected to the TV, and then press the **ENTER** ( ) button.

Result: The **Area** menu is displayed.

5 Select your Area by pressing the ▲ or ▼ button.

6 Press the **ENTER** ( ) button to confirm your choice.

Result: The **Auto Store** menu is displayed.

7 To start the search, press the **ENTER** ( ) button.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). When it has finished, the Clock Set menu is displayed.

➢ To stop the search before it has finished or return to normal viewing, press the **MENU** ( ) button.

➢ Press the **ENTER** ( ) button to set the clock.

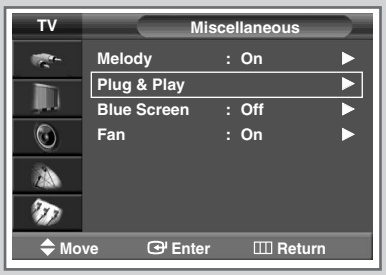
8 Press the ◄ or ► button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.

9 When it has finished, the message **Enjoy Your Watching** is displayed, and then the channel which has been stored will be activated.

Plug & Play Feature (continued)

If you want to reset this feature...

1	Press the **MENU** ( ) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** ( ) button.
4	Press the ▲ or ▼ button to select **Miscellaneous**. Press the **ENTER** ( ) button. Result: The options available in the **Miscellaneous** group are displayed.
5	Press the ▲ or ▼ button to select **Plug & Play**. Press the **ENTER** ( ) button. Result: The message **Plug & Play** is displayed.
6	For further details on how to set, refer to the opposite page.

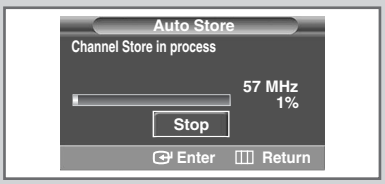


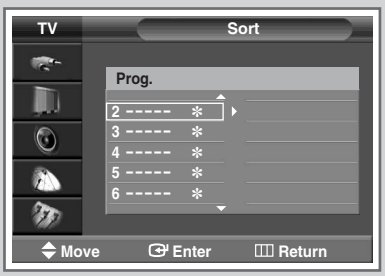
Choosing Your Language

When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

1	Press the **MENU** ( ) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** ( ) button
4	Press the ▲ or ▼ button to select **Language**. Press the **ENTER** ( ) button. Result: The available languages are listed.
5	Select the appropriate language by pressing the ▲ or ▼ button.
6	Press the **ENTER** ( ) button to confirm your choice.
7	When you are satisfied with your choice, press the **EXIT/TV** ( ) button to return to normal viewing.

Storing Channels Automatically





You can scan for the frequency ranges available to you, (availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

1 Press the **MENU** (☐☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Area**.
Press the **ENTER** (↵) button.

Result: The countries available are listed.

5 Select your country (or area) by pressing the ▲ or ▼ button.

6 Press the **ENTER** (↵) button to confirm your choice

7 Press the ▲ or ▼ button to select **Auto Store**.
Press the **ENTER** (↵) button.

Result: The **Auto Store** menu is displayed.

8 Press the **ENTER** (↵) button to start the search.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range, (with lowest first and highest last). When it has finished, the Channel Sort menu is displayed.

➢ To stop the search before it has finished, press the **MENU** (☐☐☐) button.

➢ When the channels have been stored, you can:

- Sort them in the order required (see page 22)
- Clear a channel (see page 21)
- Fine-tune channel reception if necessary (see page 31)
- Assign a name to the stored channels (see page 23)
- Activate/deactivate the Digital Noise Reduction feature (see page 41)

9 Select the channel that you wish to move by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

10 Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

Result: The channel is moved to its new position and all other channels are shifted accordingly.

11 Repeat Steps **8** to **9** until you have moved all the channels to the required programme numbers.

Storing Channels Manually

You can store up to 100 television channels, including those received via cable networks.

When storing channels manually, you can choose:

- ***Whether or not to store each of the channels found***
- ***The programme number of each stored channel which you wish to identify***

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

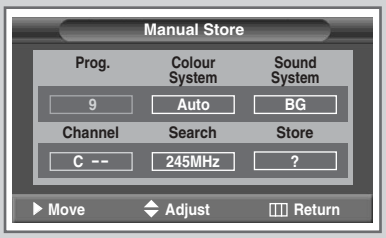
2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Manual Store**.
Press the **ENTER** (↵) button.

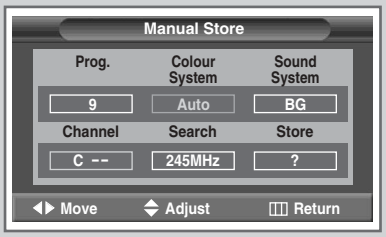
Result: The option available in the **Manual Store** group are displayed with **Prog.** is selected.



5 To assign a programme number to a channel, find the correct number by pressing the ▲ or ▼ button.

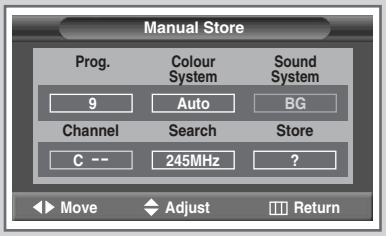
6 If necessary, select the broadcasting standard required. Press the ◀ or ▶ button to select **Colour System** and press the ▲ or ▼ button. The colour standards are displayed in the following order. (depending on the model.)

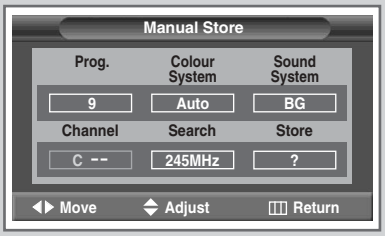
Auto – PAL – SECAM or
Auto – NT3.58 – NT4.43 – PAL60

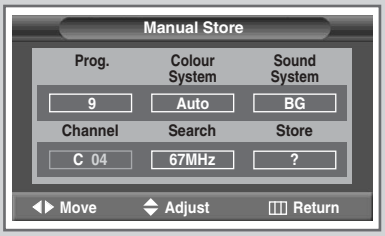


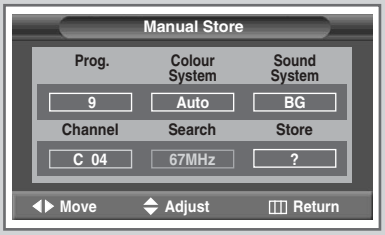
7 Press the ◀ or ▶ button to select **Sound System** and press the ▲ or ▼ button. The sound standards are displayed in the following order. (depending on the model.)

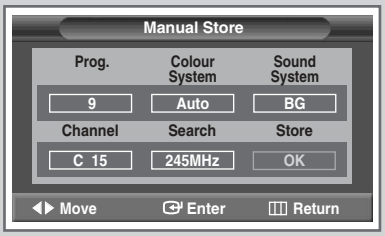
BG – DK – I – M











8 If you know the number of the channel to be stored, see the following steps.

- Press the ◀ or ▶ button to select **Channel**.
- Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
- Press the ▶ button.
- Press the numeric buttons (0~9), ▲ or ▼ button to indicate the desired channel number.

➢ If there is no sound or noise only, try a different sound standard.

9 If you do not know the channel numbers, select the **Search** by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

10 To assign a programme number to a channel, select the **Prog.** by pressing the ◀ or ▶ button.
Press the ▲ or ▼ button until you find the correct number.

11 To store the channel and associated programme number, select the **Store** by pressing the ◀ or ▶ button.
Press the **ENTER** (↵) button.

12 Repeat Steps **8** to **11** for each channel to be stored.

☛ ***Channel mode***

- **C** (Real channel mode):
  You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode):
  You can select a channel by entering the assigned number for each cable channel in this mode.

Skipping Unwanted Channels

◆ ***Skipping unwanted channels***

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are thus not displayed. All channels that you do not specifically choose to skip are displayed during scanning.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (↵) button.

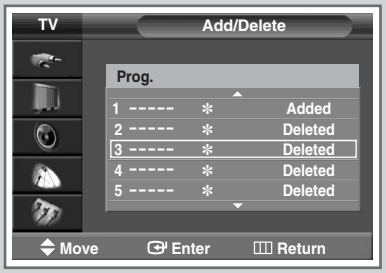
Result: The **Edit** menu is displayed.

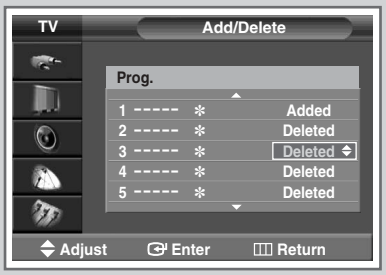
5 Press the ▲ or ▼ button to select **Add/Delete**.
Press the **ENTER** (↵) button.

Result: The **Add/Delete** menu is displayed with the current channel automatically is selected.

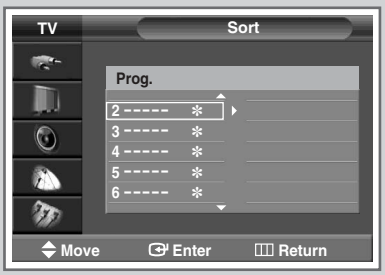
6 Press the ▲ or ▼ button to select the channel to be deleted.
Press the **ENTER** (↵) button.

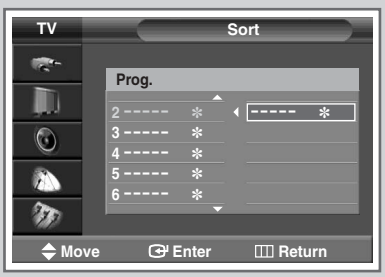
7 To add or delete the channel, select **Added** or **Deleted** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button to confirm.





Sorting the Stored Channels





This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using ATM. You can delete those channels you do not want to keep.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (↵) button.

Result: The **Edit** menu is displayed.

5 Press the ▲ or ▼ button to select **Sort**.
Press the **ENTER** (↵) button.

Result: The **Sort** menu is displayed.

6 Select the channel that you wish to move by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

7 Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

Result: The channel is moved to its new position and all other channels are shifted accordingly.

8 Repeat Steps **6** to **7** until you have moved all the channels to the required programme numbers.

Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (↵) button.

Result: The **Edit** menu is displayed.

5 Press the ▲ or ▼ button to select **Name**.
Press the **ENTER** (↵) button.

Result: The **Name** menu is displayed with the current channel automatically is selected.

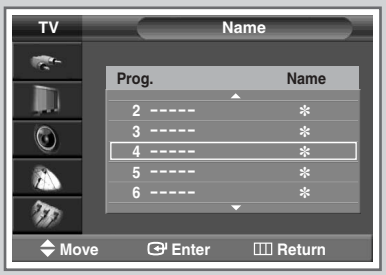
6 If necessary, select the channel to be assigned to a new name by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

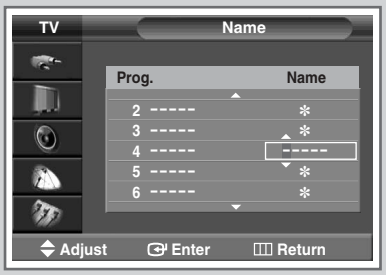
Result: Arrow indications are displayed around the name box.

7 Press the ▲ or ▼ button to select a letter (A~Z), a number (0~9), or a symbol (space, ., -). Move on to the previous or next letter by pressing the ◀ or ▶ button.

8 Preset steps **6** to **7** for each channel to be assigned to a new name.

9 When you have finished entering the name, press the **ENTER** (↵) button to confirm the name.





Using the LNA (Low Noise Amplifier) Feature

This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area, but not noise.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (↵) button.

Result: The **Edit** menu is displayed.

5 Press the ▲ or ▼ button to select **LNA**.
Press the **ENTER** (↵) button.

Result: The options available are listed.

6 Select **On** or **Off** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button to confirm.

➢
- If the picture is noisy with the **LNA** set to **On**, select **Off**.
- **LNA** setting is to be made for each channel.

Activating the Child Lock

◆ ***Activating the child lock***

This feature allows you to lock the television so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. Thus, by keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programme.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (↵) button.

Result: The **Edit** menu is displayed.

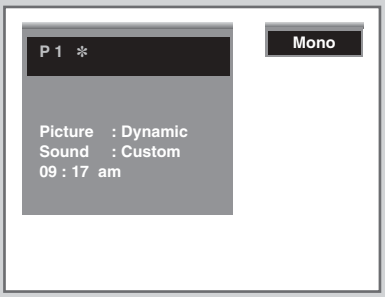
5 Press the ▲ or ▼ button to select **Child Lock**.
Press the **ENTER** (↵) button.

Result: The **Child Lock** menu is displayed with the current channel automatically is selected.
Blue Screen is displayed when the **Child Lock** is activated.

6 Press the ▲ or ▼ button to select the channel to be locked.

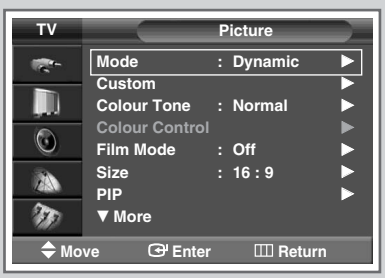
7 Press the **ENTER** (↵) button.
To lock the channel, select **Locked** by pressing the ▲ or ▼ button (to unlock the channel, select **Unlocked**).
Press the **ENTER** (↵) button to confirm.

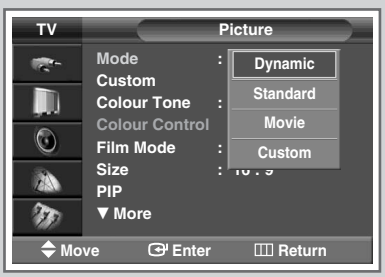
Displaying Information



You can view the channel information and setting status you select by pressing the "INFO ( )" button on the remote control. The information displayed varies according to the selected source.

Changing the Picture Standard





You can select the type of picture which best corresponds to your viewing requirements.

1 Press the **MENU** ( ) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.
Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** ( ) button.
Result: The **Mode** is selected.

4 Press the **ENTER** ( ) button again.
Result: The options available are listed.

5 Select the option by pressing the ▲ or ▼ button.
Result: The following modes are available depending on the input source.
- **Dynamic – Standard – Movie – Custom**
- **High – Middle – Low – Custom** (PC or DVI Mode).

6 Press the **ENTER** ( ) button to confirm.

➢ You can also set these options simply by pressing the **P.MODE** (: Picture Mode) button.

Adjusting the Picture Settings

Your television has several settings which allow you to control picture quality.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Select the required option (**Custom**, **Colour Tone**) pressing the ▲ or ▼ button.

5 Press the ▲ or ▼ button to select **Custom**.
Press the **ENTER** (↵) button.

Result: The **Custom** menu is displayed.

6 Press the **ENTER** (↵) button to change the setting.
The options are displayed in the following order.

- **Custom** : **Contrast**, **Brightness**, **Sharpness**, **Colour**, or **Tint(NTSC ONLY)**.

➢ **Custom** Options available in **PC**, **DVI** Mode: **Contrast**, **Brightness**, or **Sharpness**.

➢ The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

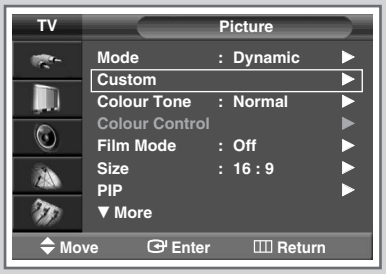
➢ When the picture mode is set to **Custom**, the settings values may vary depending on the input source.
(ex. RF, Video, Component, PC, or DVI)

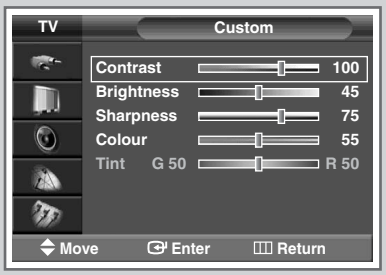
➢ If you make any changes to these settings, the picture standard is automatically switched to the **Custom**

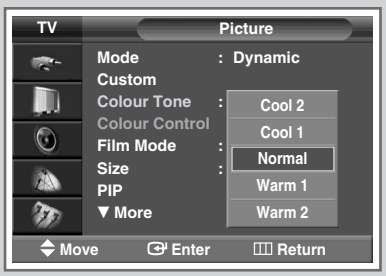
- **Colour Tone** : **Cool2**, **Cool1**, **Normal**, **Warm1**, or **Warm2**.

7 When you are satisfied with the settings, press the **EXIT/TV** (→▯) button to return to normal viewing.

➢ If you make any changes to these settings, the picture standard is automatically switched to the **Custom**.

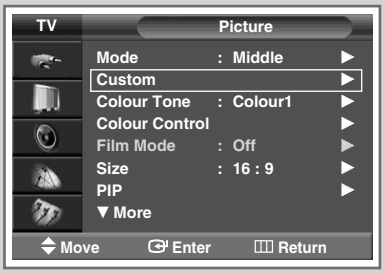


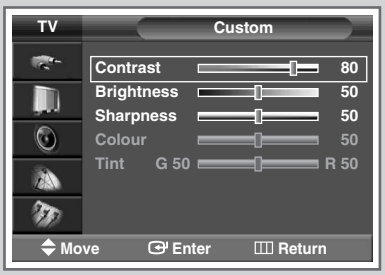


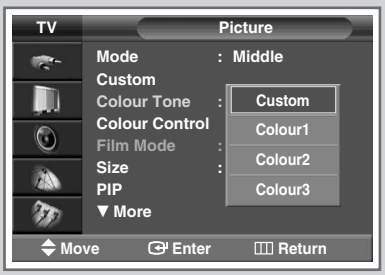


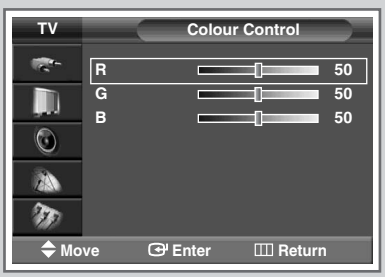
Adjusting the Picture Settings (PC or DVI Mode)

➢ Preset to the **PC** or **DVI** mode by using the **SOURCE** button.









1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Custom**.
Press the **ENTER** (↵) button.

Result: The **Custom** menu is displayed.

5 Press the ▲ or ▼ button to select the option (**Contrast**, **Brightness**, or **Sharpness**) to be adjusted.
Press the **ENTER** (↵) button.

Result: The horizontal bar is displayed.
Move the horizontal bar's cursor left or right by pressing the ◄ or ► button.

6 Press the **MENU** (▥) button to confirm your choice.

7 Press the **MENU** (▥) button.

Result: The options available in the **Picture** group are displayed again.

8 Press the ▲ or ▼ button to select **Colour Tone**.
Press the **ENTER** (↵) button.

9 Select the option by pressing the ▲ or ▼ button.
The colour tones are displayed in the following order.

Custom (PC mode only) **– Colour1 – Colour2 – Colour3**

10 Press the **MENU** (▥) button.

Result: The options available in the **Picture** group are displayed again.

11 Press the ▲ or ▼ button to select **Colour Control**.
Press the **ENTER** (↵) button.

Result: The **Colour Control** menu is displayed.

12 Press the ▲ or ▼ button to select the option (**R**, **G**, or **B**) to be adjusted. Press the **ENTER** (↵) button.

Result: The horizontal bar is displayed.
Move the horizontal bar's cursor left or right by pressing the ◄ or ► button.

➢ The Colour Control is not available in the DVI Mode.

Setting the Picture (PC Mode)

➢ Preset to the **PC** mode by using the **SOURCE** button.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **PC Setup**.
Press the **ENTER** (↵) button.

Result: The options available in the **PC Setup** group are displayed.

5 Press the ▲ or ▼ button to select **Image Lock.**
Press the **ENTER** (↵) button.

Result: The options available in the **Image Lock** group are displayed.

6 Press the ▲ or ▼ button to select the option (**Coarse**, **Fine**) to be adjusted. Press the **ENTER** (↵) button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◄ or ► button.

7 Press the **MENU** (▥) button to confirm your choice.

8 Press the **MENU** (▥) button.

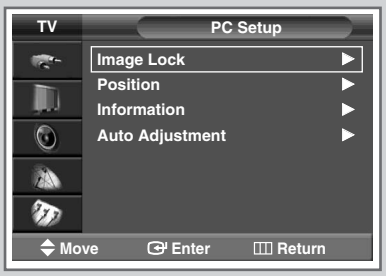
Result: The options available in the **PC Setup** group are displayed again.

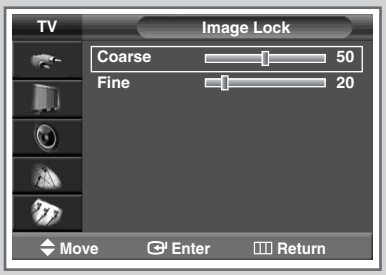
9 Press the ▲ or ▼ button to select **Position**.
Press the **ENTER** (↵) button.

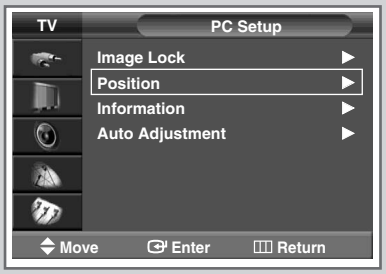
Result: The options available in the **Position** group are displayed.

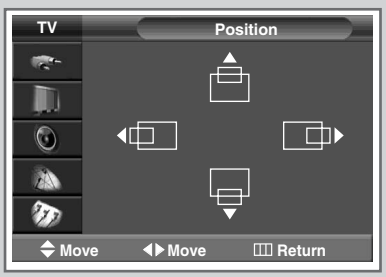
10 Adjust the position by using the ▲, ▼, ◄, or ► button.

11 Press the **MENU** (▥) button to confirm your choice.



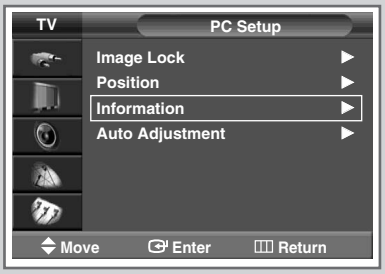






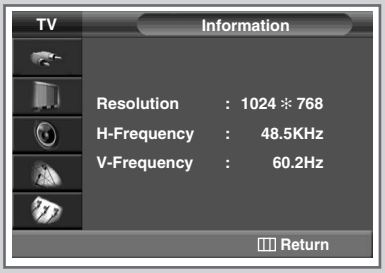
Setting the Picture (PC Mode) (continued)

➢ Preset to the **PC** mode by using the **SOURCE** button.



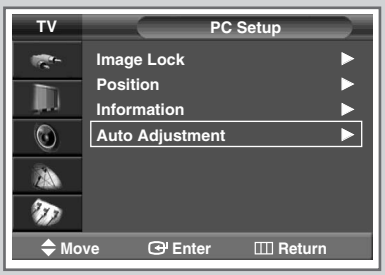
12 If you get the PC information, select the **Information** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

Result: The resolution, horizontal and vertical frequency are displayed.



13 Press the **MENU** (▥) button.

Result: The options available in the **PC Setup** group are displayed again.



14 Press the ▲ or ▼ button to select **Auto Adjustment**.
Press the **ENTER** (↵) button.

Result: The screen quality and position are automatically reset with the **Auto Adjusting** displayed.

15 When you are satisfied with the settings, press the **MENU** (▥) button repeatedly to return to the normal viewing.

Using the Fine Tune

If reception is weak, you can fine tune a channel manually.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Fine Tune**.
Press the **ENTER** (↵) button.

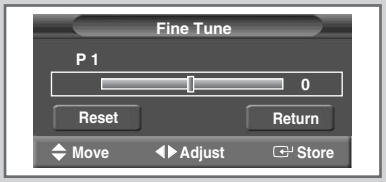
Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◄ or ► button to reach the required setting.

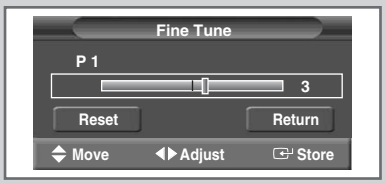
5 Press the ◄ or ► button until the picture and sound are both clear and sharp. Press the **ENTER** (↵) button.

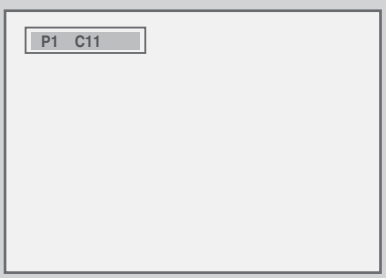
6 To reset the fine tuning to **0**, select **Reset** by pressing the ▲ or ▼ button then press the **ENTER** (↵) button.

➢ If you are unable to fine tune a channel, check that the **Colour System** and **Sound System** settings are correct.

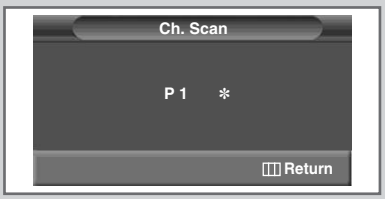
➢ Fine tune Store will change the colour of the Channel **OSD**(On Screen Display) from **White** to **Red**.







Viewing the Channel Scan Picture



1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

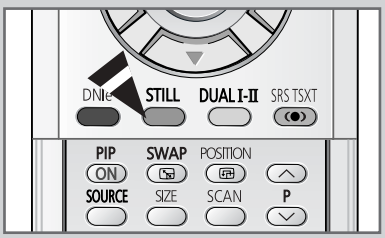
4 Press the ▲ or ▼ button to select **Ch. Scan**.
Press the **ENTER** (↵) button.

Result: You can view every memorized channel in order.

5 Press the **MENU** (▥) button to exit.

➢ When PIP ON is activated, the PIP will appear in Large mode and PIP channel will be scanned.

Freezing the Current Picture



You can freeze the picture when watching a television programme simply by pressing the "STILL" button. To return to normal viewing, press it again.

➢ In the PIP mode, the main and sub pictures are stilled at the same time.

➢ This function will automatically cancel after 5 minutes.

Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

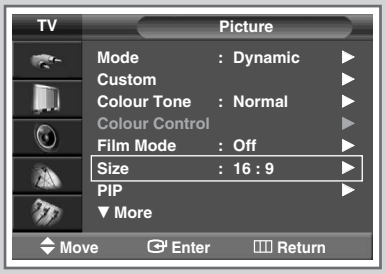
3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button until the **Size** is selected.
Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to change the setting.

- **16:9** : Sets the picture to **16:9** wide mode.
- **Panorama** : Use this mode for the wide aspect ratio of a panoramic picture.
- **Zoom** : Magnify the size of the picture vertically on screen.
- **14:9** : Magnify the size of the picture more than **4:3**.
- **4:3** : Sets the picture to **4:3** normal mode.

6 Press the **ENTER** (↵) button to confirm.



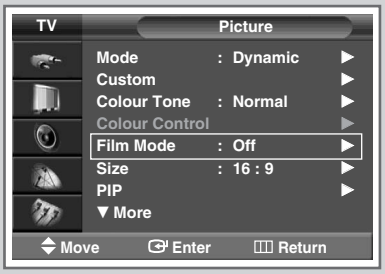
PC to DVI Mode

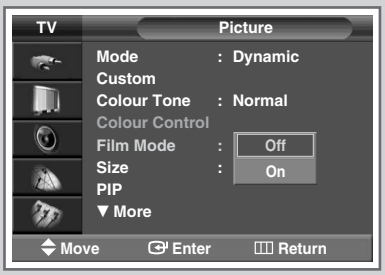
➢
- You can select these options by simply pressing the **P.SIZE** button on the remote control.
- The picture size can not be changed in the PIP mode.
- Depending on the input source, the **P.SIZE** options may vary.

Positioning and Sizing the screen using Zoom

➢
- Resizing the screen using the **Zoom** enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.
- Move the screen up/down using the ▲ or ▼ button after selecting the by pressing the ▲ or ▼ button.
- Resize the screen vertically using the ▲ or ▼ button after selecting the by pressing the ▲ or ▼ button.
- Screen enlargement operates only in TV/Video/ S-Video/Component1, 2 input modes.
- PC/DVI modes prevents the screen enlargement function.

Selecting the Film Mode





You can automatically sense and process film signals from some sources and adjust the picture for optimum quality.

1 Press the **MENU** (☐☐☐) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.
Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Film Mode**.
Press the **ENTER** (↵) button.

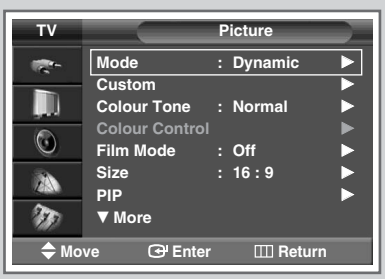
5 Select **Off** or **On** by pressing the ▲ or ▼ button.
Press the **ENTER** button to confirm.

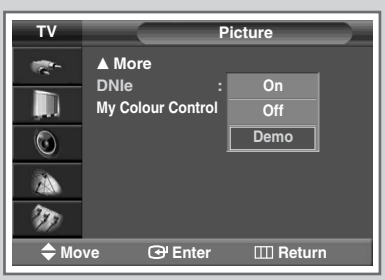
- **Off** : Switches off the **Film Mode**.
- **On** : Automatically senses and processes film signals from some sources and adjusts the picture for optimum quality.

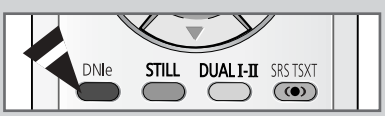
6 Press the **ENTER** (↵) button to confirm.

➢
- Not available in the PC, Component (480p, 576p, 720p, 1080i) or DVI modes.
- Mode discrepancies, such as turning off Film Mode while viewing a film source or turning on Film Mode while viewing non-film sources, may affect the picture quality.

DNIe™ (Digital Natural Image engine) DNIe™







This feature bring you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.

1 Press the **MENU** (☐☐☐) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button until the **DNIe** is selected.
Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to change the setting.

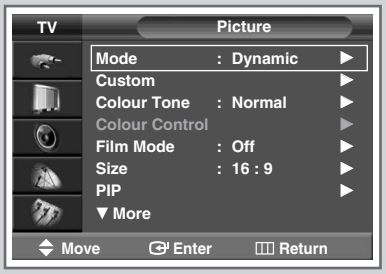
- **On** : Switches on the DNIe mode.
- **Off** : Switches off the DNIe mode.
- **Demo** (Option) : The screen before applying DNIe appears on the right and the screen after applying DNIe appears on the left.

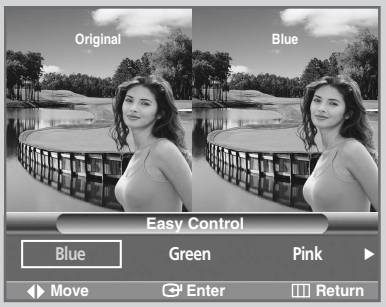
6 Press the **ENTER** (↵) button to confirm.

➢ You can also set these options simply by pressing the **DNIe** button.

Setting the My Colour Control (Easy Control)

This feature allows you to adjust colors to according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", "Custom") without affecting other colors on the screen.





1 Press the **MENU** (☐☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **My Colour Control**.
Press the **ENTER** button.

Result: The options available are displayed with the **Easy Control** is selected.

5 Press the **ENTER** (↵) button.

Result : The following modes are available:

- **Blue**
  Emphasizing Clear Blues.
- **Green**
  Emphasizing Mild Greens.
- **Pink**
  Emphasizing Warm Skin Colours.
- **Standard**
  Standard Picture
- **Custom**
  Changing the settings in the **Detail Control** menu will automatically set to **Custom** (see next page).

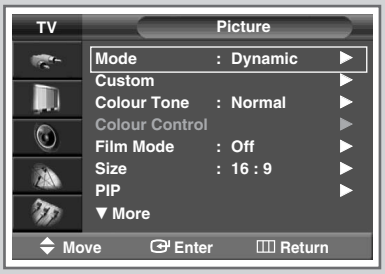
6 Select the required mode by pressing the ◀ or ▶ button.

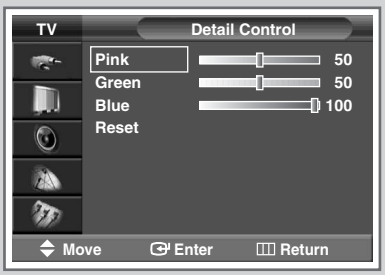
Result : The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

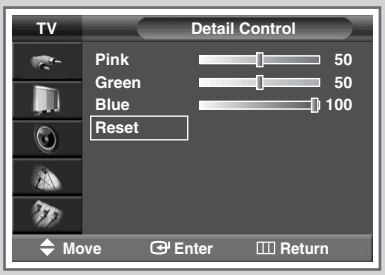
7 Press the **ENTER** button to confirm.

➢
- Depending on the input source, this feature may not operate.
- This feature is operated when the "**DNIe**" is set to "**On**" or "**Demo**" mode.

Setting the My Colour Control (Detail Control)







This settings can be adjusted to suit your personal preferences.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **My Colour Control**.
Press the **ENTER** button.

5 Press the ▲ or ▼ button to select **Detail Control**.
Press the **ENTER** button.

Result: The available options are displayed.

6 Select the required option (**Pink**, **Green** or **Blue**) by pressing the ▲ or ▼ button. Press the **ENTER** button.

7 Press the ◄ or ► button until you reach the required setting.

Result : Changing the adjustment value will refresh the adjusted screen.

8 Press the **MENU** (▥) button.

Result: The options available in the **Detail Control** group are displayed again.

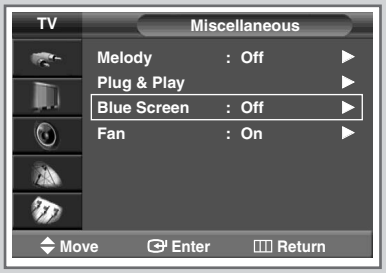
9 To return the factory defaults, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER** button.

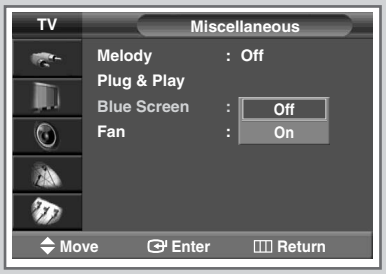
Result: The previously adjusted colors will be reset to the factory defaults.

Setting the Blue Screen

*If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "**Blue Screen**" mode to "**Off**".*

1. Press the **MENU** (☐) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The options available in the **Setup** group are displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Miscellaneous**.
   Press the **ENTER** (↵) button.
   Result: The options available in the **Miscellaneous** group are displayed.
5. Press the ▲ or ▼ button to select **Blue Screen**.
   Press the **ENTER** (↵) button.
6. Press the ▲ or ▼ button to change the setting. (**Off** or **On**)
7. Press the **ENTER** (↵) button to confirm.

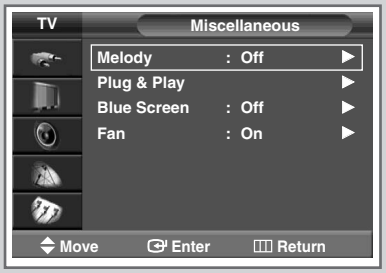


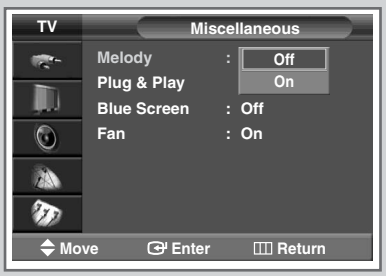


➢ ◆ **Blue Screen** is displayed while no signal from the external device in the External Mode, regardless of the Blue Screen Setting.

Setting the Melody Sound

You can hear clear melody sound when the television is powered on or off.

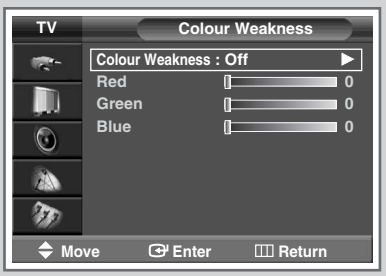


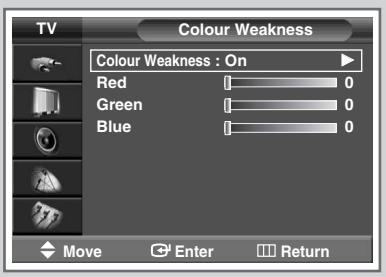


1. Press the **MENU** (☐) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The options available in the **Setup** group are displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Miscellaneous**.
   Press the **ENTER** (↵) button.
   Result: The options available in the **Miscellaneous** group are displayed.
5. Press the ▲ or ▼ button to select **Melody**.
   Press the **ENTER** (↵) button.
6. Press the ▲ or ▼ button to change the setting. (**Off** or **On**)
7. Press the **ENTER** (↵) button to confirm.

Using the Colour Weakness Enhancement Feature

This Feature adjusts the Red, Green, or Blue colour to enhance the picture according to the user's particular colour weakness.





1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Colour Weakness**.
Press the **ENTER** (↵) button.
Result: The options available in the **Colour Weakness** group are displayed.

5 Press the **ENTER** (↵) button again.
Press the ▲ or ▼ button to select **On**, then press the **ENTER** (↵) button.

6 Press the ▲ or ▼ button to select the colour you wish to adjust, then press the **ENTER** (↵) button.

7 Press the ◀ or ▶ button to adjust to your preference.

8 Press the **MENU** (▥) or **ENTER** (↵) button to confirm.

Viewing the Picture In Picture (PIP)

You can display a sub picture within the main picture of TV program or external A/V devices. In this way you can watch TV program or monitor the video input from any connected devices while watching TV or other video input.

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.
Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **PIP**.
Press the **ENTER** (↵) button.
Result: The options available in the **PIP** group are displayed.

5 Press the **ENTER** (↵) button again.
To activate, set the **PIP** to **on** by pressing the ▲ or ▼ button.

6 Press the ▲ or ▼ button to select **Source**.
Press the **ENTER** (↵) button.
Result: The sources are displayed in the following order:
TV – AV1 – AV2 – AV3 – S-Video1 – S-Video2 – Component1 – Component2 – PC – DVI

➢ ◆ The **PC** can not be selected in DVI mode.
◆ The **DVI** can not be selected in PC mode.

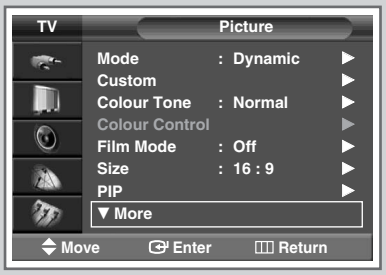
7 Select a source of the sub picture by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

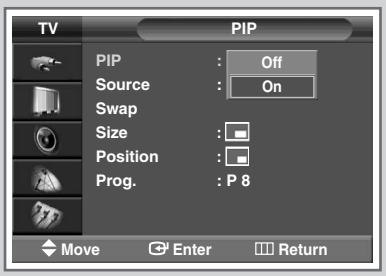
8 Press the ▲ or ▼ button to select **Swap**.
Press the **ENTER** (↵) button.
Result: The main picture and sub picture are interchanged.

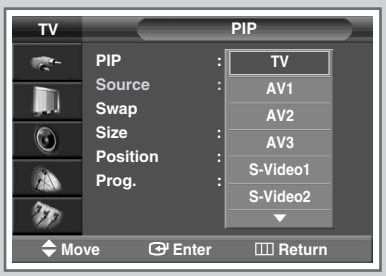
9 Press the ▲ or ▼ button to select **Size**.
Press the **ENTER** (↵) button.
Result: The sizes are displayed in the following order:
(Large) – (Small) – (Double1) – (Double2)

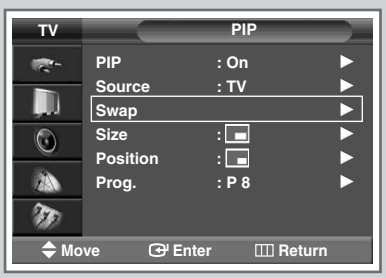
➢ ◆ The Double 1 or Double 2 mode can not be selected in **PC** or **DVI** mode.

10 Select a size of the sub picture by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.









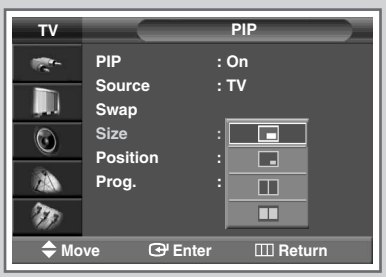
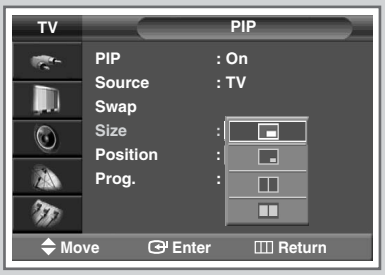


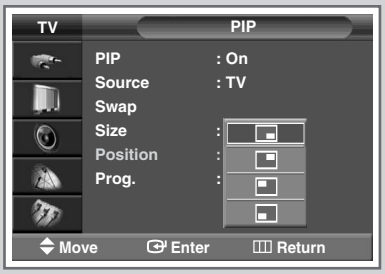
Table of PIP Settings

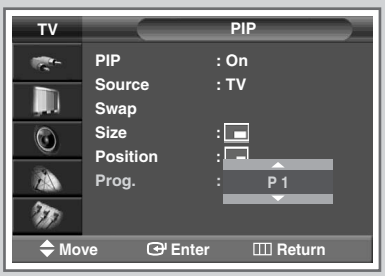
X - This PIP combination is not available.
O - This PIP combination is available.

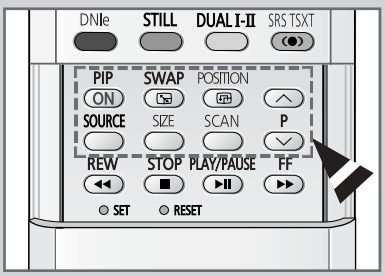
PIP \ Main	TV	AV1	AV2	AV3	S-Video1	S-Video2	COMP1	COMP2	PC	DVI
TV	O	O	O	O	O	O	O	O	O	O
AV1	O	X	O	O	O	O	O	O	O	O
AV2	O	O	X	O	O	O	O	O	O	O
AV3	O	O	O	X	O	O	O	O	O	O
S-Video1	O	O	O	O	X	O	O	O	O	O
S-Video2	O	O	O	O	O	X	O	O	O	O
COMP1	O	O	O	O	O	O	X	X	X	X
COMP2	O	O	O	O	O	O	X	X	X	X
PC	O	O	O	O	O	O	X	X	X	X
DVI	O	O	O	O	O	O	X	X	X	X

Viewing the Picture In Picture (PIP) (continued)









11 Press the ▲ or ▼ button to select **Position**.
Press the **ENTER** (↵) button.

Result: The positions available are displayed.

12 Select a position by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

13 Press the ▲ or ▼ button to select **Prog.**.
Press the **ENTER** (↵) button.

14 Select the channel that you want to view through sub picture by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

➢ If the sub picture is no signal and the main picture is output from a Component, PC or DVI signal, the sub picture will be blue. If the main picture is output from a Video signal, the sub picture will be black.

Easy functions of remote control.

Buttons	Feature
PIP ON	Used to activate or deactivate the PIP function directly.
SWAP	Used to interchange the main picture and the sub picture. ➢ When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the **SWAP** (⇆) button after changing the sub picture channel. At this time, reselect the channel of main picture.
POSITION	Used to move the sub picture counterclockwise.
SOURCE	Used to assign a source of sub picture (**TV**, **AV1**, **AV2**, **AV3**, **S-Video1**, **S-Video2**, **Component1**, **Component2**, **PC**, **DVI**).
SIZE	Used to select a size of sub picture (Large, Small, Double1, Double2).
SCAN	Used to scan every memorized channel in order. To stop scanning, press it again.
P∧/∨	Used to select the channel of sub picture.

Using the Digital NR (Noise Reduction) Feature

If the signal received by your television is weak, you can activate this feature to help reduce any static and ghosting that may appear on the screen.

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button until the **Digital NR** is selected.
Press the **ENTER** (↵) button.

5 Select **Off** or **On** by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button to confirm.

Selecting the Fan

Operates or stops the TV's internal Fan.
What is the Fan: Fans inside the TV are used to reduce the temperature of the tops and the front of the TV. To reduce the noise of the fan, you may stop the fan by setting the Fan to "Off". The temperature of the top and the front of the TV may increase when you watch the TV for a long period of time while the fan is stopped, but the TV will operate normally.

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

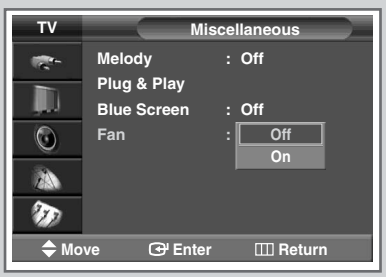
4 Press the ▲ or ▼ button to select **Miscellaneous**.
Result: The options available in the **Miscellaneous** group are displayed.

5 Press the **ENTER** (↵) button.

6 Press the ▲ or ▼ button to select **Fan**.
Press the **ENTER** (↵) button.

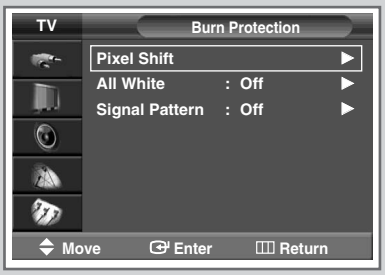
7 Press the ▲ or ▼ button to change the setting. (**Off** or **On**)

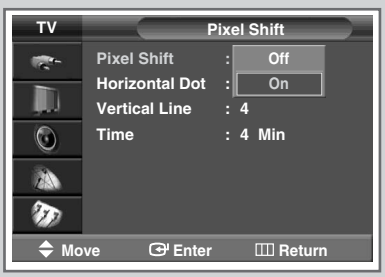
8 Press the **ENTER** (↵) button to confirm.

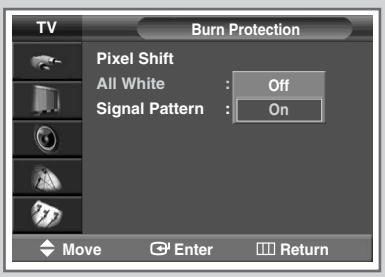


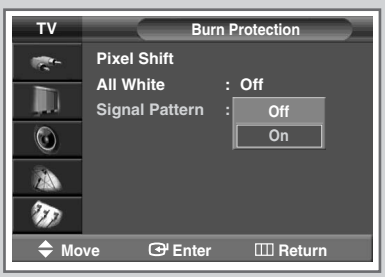
Protecting the Screen Burning

You can prevent the residual image of the PDP.









1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Burn Protection**.

5 Press the **ENTER** (↵) button.
Result: The **Burn Protection** menu is displayed with the **Pixel Shift** selected.

6 Press the **ENTER** (↵) button again.
Result: The **Pixel Shift** menu is displayed with the **Pixel Shift** selected.

7 Press the **ENTER** (↵) button. Set to On by pressing the ▲ or ▼ button for making the screen move per regular hour and preventing the residual image, then press the **ENTER** (↵) button.

8 Select the option (**Horizontal Dot**, **Vertical Line**, **Time**) to be adjusted by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

➢ Optimum condition for pixel shift;

Horizontal Dot	**2**
Vertical Line	**4**
Time	**4MIN**

9 Press the ▲ or ▼ button to reach the required setting.
Press the **ENTER** (↵) button.

10 When you are satisfied with the settings, press the **MENU** (▥) button. Press the **ENTER** (↵) button.

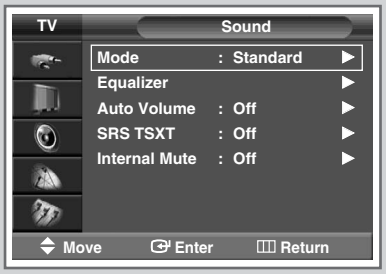
11 Press the ▲ or ▼ button to select **All White**.
Press the **ENTER** (↵) button. Set to **On** by pressing the ▲ or ▼ button for removing the residual image after making the screen white. Press the **ENTER** (↵) button.

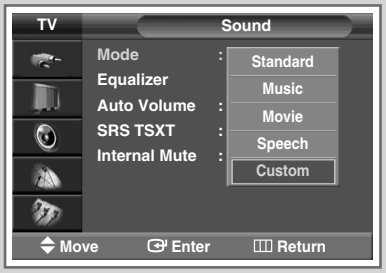
12 Press the ▲ or ▼ button to select **Signal Pattern**.
Press the **ENTER** (↵) button. Set to **On** by pressing the ▲ or ▼ button for removing the residual image.
Press the **ENTER** (↵) button.

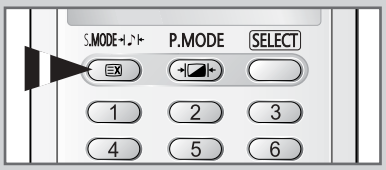
➢ The **Signal Pattern** and **All White** feature are effective after working for a long time.

Changing the Sound Standard

You can select the type of special sound effect to be used when watching a given broadcast.







1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

Result: The **Mode** is selected.

4 Press the **ENTER** (↵) button again.

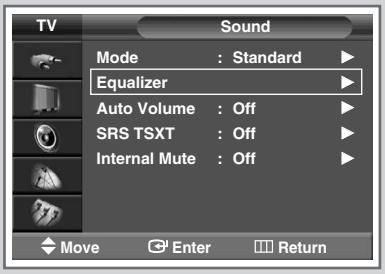
5 Select the option by pressing the ▲ or ▼ button.
The sound effects are displayed in the following order.

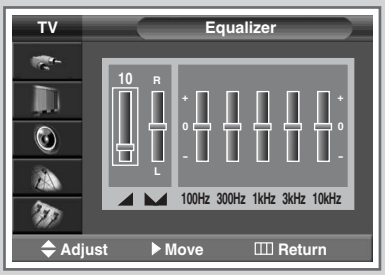
Standard – Music – Movie – Speech – Custom.

6 Press the **ENTER** (↵) button to confirm.

➢ You can also set these options simply by pressing the **S.MODE** (♩♪: Sound Mode) button.

Adjusting the Sound Settings





The sound settings can be adjusted to suit your personal preferences.

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.
Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

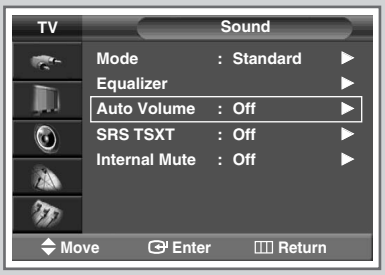
4 Press the ▲ or ▼ button to select **Equalizer**.
Press the **ENTER** (↵) button.
Result: The **Equalizer** menu is displayed with the current option.

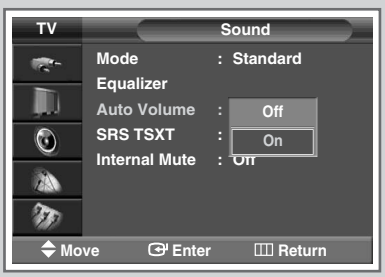
5 Select the option (volume, balance, equalizer) to be adjusted by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to reach the required setting.

6 When you are satisfied with the settings, press the **MENU** (▥) button to store them.

➢ If you make any changes to the equalizer settings, the sound standard is automatically switched to the **Custom**.

Adjusting the Volume Automatically





Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.
Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

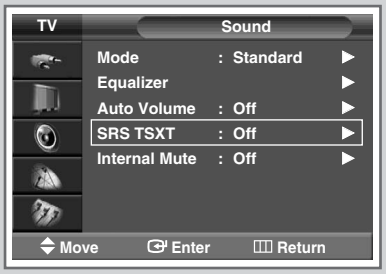
4 Press the ▲ or ▼ button to select **Auto Volume**.
Press the **ENTER** (↵) button.

5 Select the option (**Off** or **On**) by pressing the ▲ or ▼ button.

6 Press the **ENTER** (↵) button to confirm.

Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

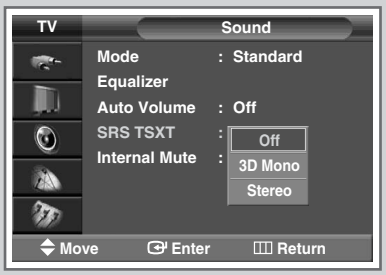


1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button until the **Sound** is selected.

Result: The options available in the **Sound** group are displayed.

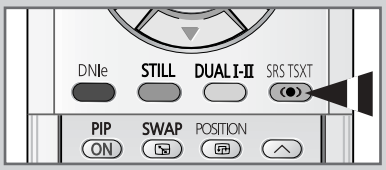


3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button until the **SRS TSXT** is selected.
Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to change the setting.
(**Off**, **3D Mono** or **Stereo**).

6 Press the **ENTER** (↵) button to confirm.



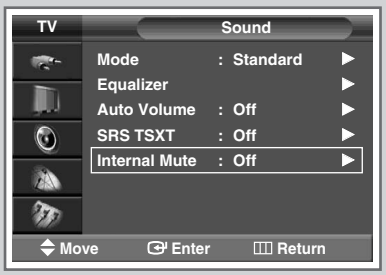
➢ TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

SRS(●) TruSurround XT

➢ You can also set these options simply by pressing the **SRS TSXT** (●)button.

Selecting the Internal Mute

If you want to hear the sound through separate speakers, cancel the internal amplifier.

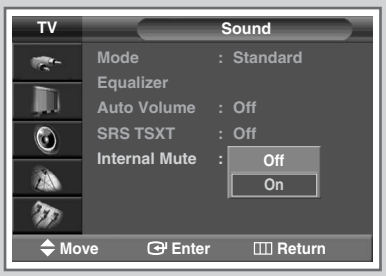


1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.



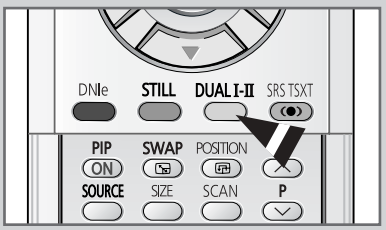
3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Internal Mute**.
Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to change the setting. (**Off** or **On**).

6 Press the **ENTER** (↵) button to confirm.

Selecting the Sound Mode (depending on the model)



The "DUAL I-II" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I " or "Stereo", depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM Mono ↔ Mono**
	NICAM Stereo	**NICAM Stereo ↔ Mono** (Forced mono)
	NICAM DUAL-I/II	**NICAM DUAL-I → NICAM DUAL-II → Mono**
A2 Stereo	Regular broadcast (Standard audio)	**Mono**
	Bilingual or DUAL-I/II	**DUAL-I ↔ DUAL-II**
	Stereo	**Stereo ↔ Mono** (Forced mono)

➢
- If the receiving conditions deteriorate, listening will be easier if the mode is set to the **Mono**.
- If the stereo signal is weak and an automatic switching occurs, then switch to the **Mono**.
- When receiving a mono sound in the AV mode, connect to the "AUDIO-L" input connector on the side of the television. If the mono sound comes out only from left speaker, press the **DUAL I-II** button.

Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode.

1 Press the **MENU** (☐☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** (↵) button.

Result: The options available in the **Time** group are displayed.

5 Press the ▲ or ▼ button to select **Sleep Timer**.
Press the **ENTER** (↵) button.

Result: The **Sleep Timer** menu is displayed with the **Min** is selected.

6 Select the preset time intervals (**Off**, **30**, **60**, **90**, **120**, **150**, **180**) by pressing the ▲ or ▼ button.

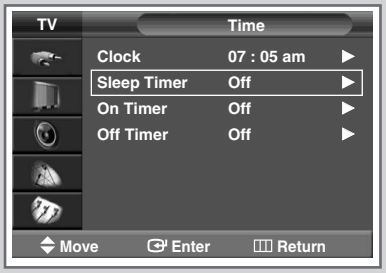
7 Press the ◄ or ► button to move to the **Activation**.

8 When you are satisfied with the settings, select **Activation** to **Yes** or **No** by pressing the ▲ or ▼ button.

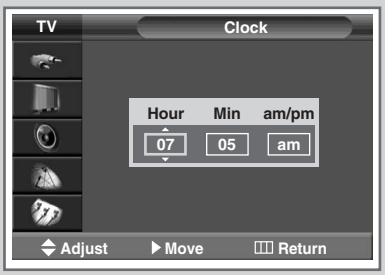
9 Press the **ENTER** (↵) button to confirm your selection.

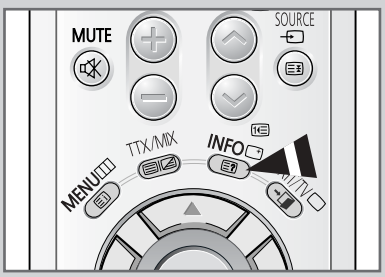
➢ ◆ You can also set these options simply by pressing the **SLEEP** button.

◆ If the sleep timer is not yet set, **Off** is displayed.
If the sleep timer is already set, the remaining time before which the television switches to Standby mode is displayed.



Setting and Displaying the Current Time





You can set the television's clock so that the current time is displayed by pressing the "INFO (⊡)" button. You must also set the time if you wish to use the automatic on or off timers.

➢ When pressing the "**I / ⏻**" button (On/Off) on the front of the television, the clock setting will be reset.

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** (↵) button.
Result: The options available in the **Time** group are displayed with **Clock** is selected.

5 Press the **ENTER** (↵) button.

6 Press the ► button to move to the hour or minute.
Set the hour, minute or am/pm by pressing the ▲ or ▼ button.

7 When you have finished, press the **MENU** (▥) button to exit.

8 Press the **INFO** (⊡) button to display the current time.

Switching the Television On and Off Automatically

You can set the television's clock and set the On or Off timers so that the television will:

- ***Switch on automatically and tune to the channel of your choice at the time you select***
- ***Switch off automatically at the time you select***

➢ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page).

1 Press the **MENU** (▥) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** (↵) button.
Result: The options available in the **Time** group are displayed.

5 Press the ▲ or ▼ button to select **On Timer**.
Press the **ENTER** (↵) button.
Result: The options available in the **On Timer** group are displayed.

6 Select the **Hour**, **Min**, **am/pm**, **Prog.**, **Volume** by pressing the ▶ button.
Set these by pressing the ▲ or ▼ button.

7 Press the ◀ or ▶ button to move to the **Activation**.

8 When you are satisfied with the settings, select **Activation** to **Yes** or **No** by pressing the ▲ or ▼ button.

9 Press the **MENU** (▥) button.
Result: The options available in the **Time** group are displayed again.

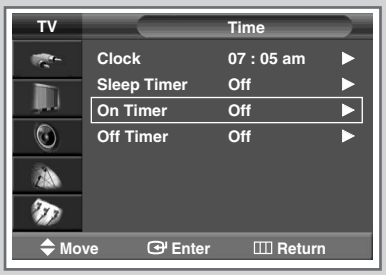
10 Press the ▲ or ▼ button to select **Off Timer**.
Press the **ENTER** (↵) button.
Result: The **Off Timer** menu is displayed.

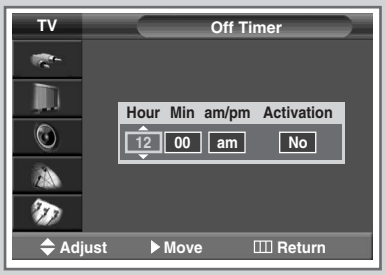
11 Select the **Hour**, **Min**, **am/pm** or **Activation** by pressing the ▶ button.
Set these by pressing the ▲ or ▼ button.

12 Press the **ENTER** (↵) button to confirm.

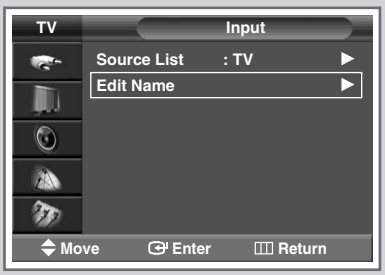
➢ **Auto Power Off**
Auto Power OFF will automatically turn the TV off if you do not operate any controls within 3 hours after the TV is turned on by the timer. This function is available in the timer "On" mode only and will prevent a leakage acclident or overheating caused by your TV being left on too long.

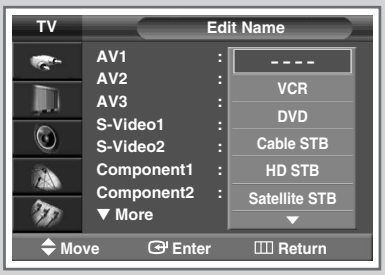
➢ If no signal is received for 15 minutes, the TV will be automatically turned off.

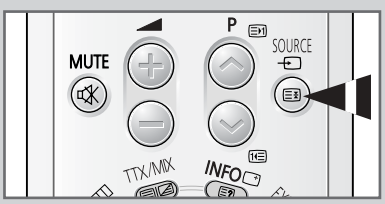




Viewing an External Signal Source







Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top-boxs and the TV source (broadcast or cable)

1 Press the **MENU** (☐☐☐) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Input**.

Result: The options available in the **Input** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Source List**.
Press the **ENTER** (↵) button.

Result: The options available in the **Source List** group are displayed.

5 Press the ▲ or ▼ button to select signal source, then press the **ENTER** (↵) button.

➢ When you connect equipment to the TV, you can choose between the following sets of jacks : **AV1**, **AV2**, **AV3**, **S-Video1**, **S-Video2**, **Component1**, **Component2**, **PC** or **DVI** on the TV's rear panel.

6 Press the **MENU** (☐☐☐) button and select **Input**.

7 Press the ▲ or ▼ button to select **Edit Name**.
Press the **ENTER** (↵) button.

Result: The options available in the **Edit Name** group are displayed.

8 Press the ▲ or ▼ button to select external device :
AV1 – AV2 – AV3 – S-Video1 – S-Video2 – Component1 – Component2 – PC – DVI

9 Press the **ENTER** (↵) button.

Result: The **Edit Name** available are listed.

10 Select the name by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

11 Set other signal sources (**VCR**, **DVD**, **Cable STB**, **HD STB**, **Satellite STB**, **AV Receiver**, **DVD Receiver**, **Game**, **Camcorder**, **DVD Combo**, **DHR** or **PC**) using the same method as listed above.

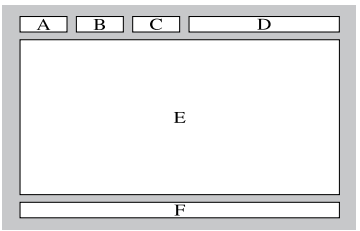
➢ You can also set these options simply by pressing the **SOURCE** (↵) button. If you change the external source while viewing, pictures might take a short period of time to be switched.

➢ **DHR** : **D**VD **H**DD **R**ecorder.

Teletext Feature

Most television channels provide written information services via teletext. Information provided includes:

- ***Television programme times***
- ***News bulletins and weather forecasts***
- ***Sports results***
- ***Travel information***



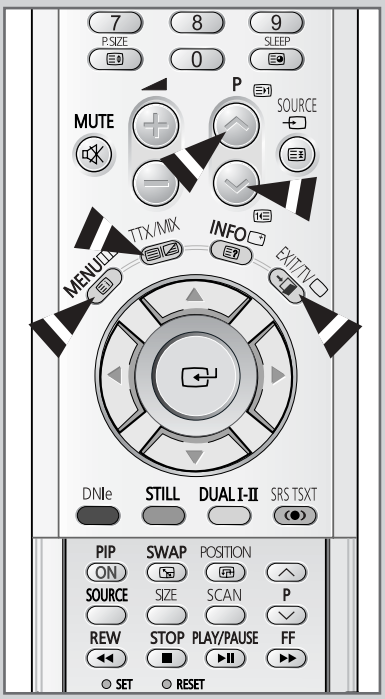
This information is divided into numbered pages (see diagram).

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- Entering the page number
- Selecting a title in a list
- Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Information



You can display Teletext information at any time on your television

☛ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- Information may be missing
- Some pages may not be displayed

1 Select the channel providing the Teletext service by pressing the **P** ▲ or ▼ button.

2 Press the **TTX/MIX** (▤|◪) button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the (index) button.

3 Press the **TTX/MIX** (▤|◪) button again.

Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.

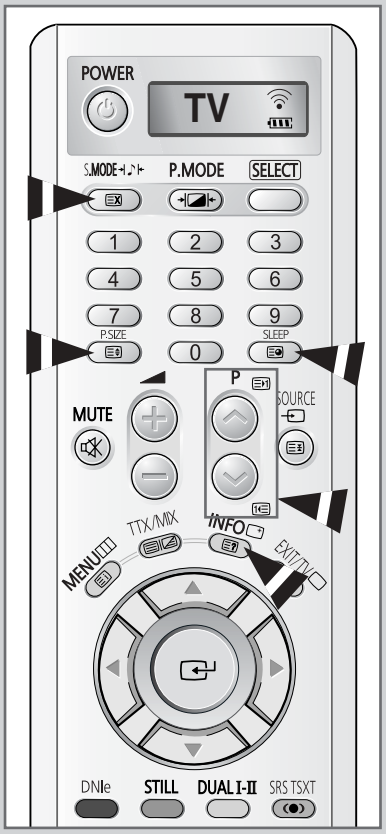
4 If you wish to display the actual broadcast and teletext information on a single screen, press the **TTX/MIX** (▤|◪) button again.

5 To exit from the teletext display, press the **EXIT/TV** (→◨) button.

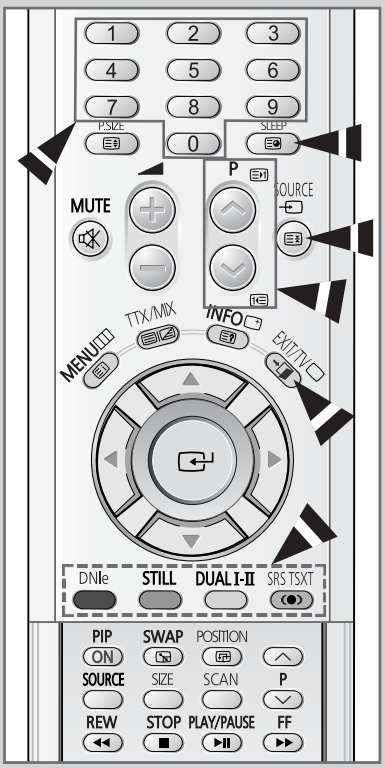
Selecting Display Options

When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	(reveal)
◆ The normal screen	(reveal) again
◆ A secondary page by entering its number	(sub-page)
◆ The broadcast when searching for a page	(cancel)
◆ The next page	(page up)
◆ The previous page	(page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	(size) • Once • Twice
◆ The normal screen	• Three times



Selecting a Teletext Page



You can enter the page number directly by pressing the numeric buttons on the remote control.

1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold). Press it again to resume.

2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.
Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

Result: The page is displayed with other coloured information that can be selected in the same way.

3 To display the previous or next page, press the corresponding coloured button.

4 To display the subpage, see the following steps.

- Press the (sub-page) button.
  Result: The available subpages appear.
- Select the required sub-page. Sub-pages can be scrolled by pressing the or button.

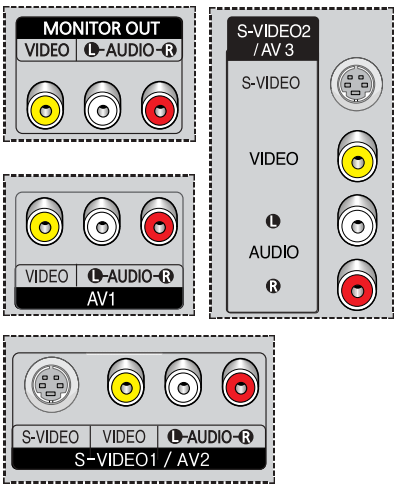
5 When you have finished, press the **EXIT/TV** ( ) button to return to your normal broadcast.

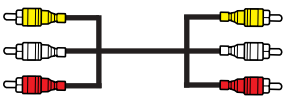
Connecting to the External Devices

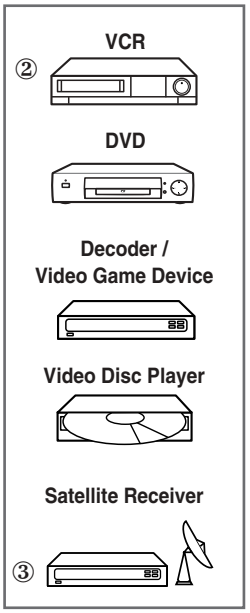
"MONITOR OUT" are used for the equipment with an RGB output, such as video game devices or video disc players.

Rear of the TV

(Input/Output)







① This end can be fitted with:
- Three RCA connectors (VIDEO + AUDIO-L/R)

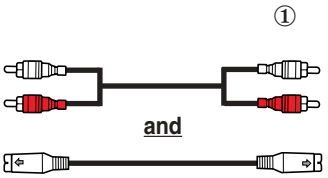
② If you have a second VCR and wish to copy cassettes tape, connect the source VCR to "**AV1(AV2 or AV3)**" and the target VCR to "**MONITOR OUT**" so that you can redirect the signal from "**AV1(AV2 or AV3)**" to "**MONITOR OUT**".

③ When you wish to record a programme, connect the receiver to "**AV1(AV2 or AV3)**" and the VCR to "**MONITOR OUT**" so that you can redirect the signal from "**AV1(AV2 or AV3)**" to "**MONITOR OUT**".

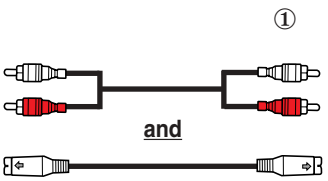
Connecting to the S-Video Input

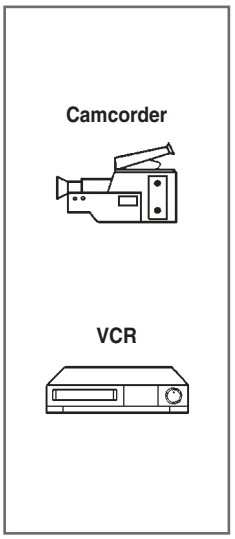
The S-VIDEO1 and RCA (AUDIO-L/R) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

Rear of the TV



Side of the TV





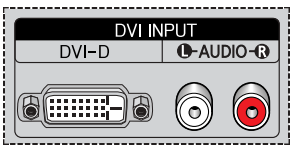
① To play picture and sound, both the S-VIDEO and RCA connectors must be used.

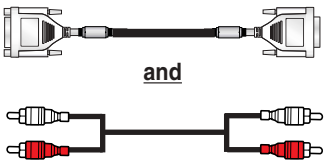
☛ Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting to the DVI Input

The "DVI" (video) **and "L-AUDIO-R" connectors are used for equipment with a DVI output.**

Rear of the TV



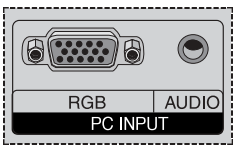


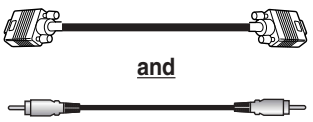
Personal Computer

Connecting to the PC Input

The "RGB" (video) **and "AUDIO" connectors are used for interfacing with your PC.**

Rear of the TV

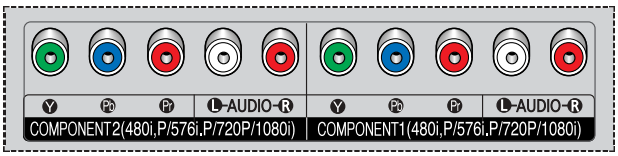


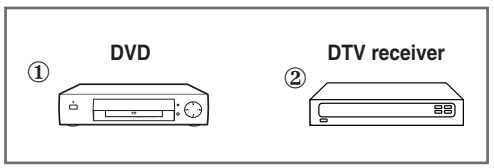


Personal Computer

Connecting to the Component Input

Rear of the TV



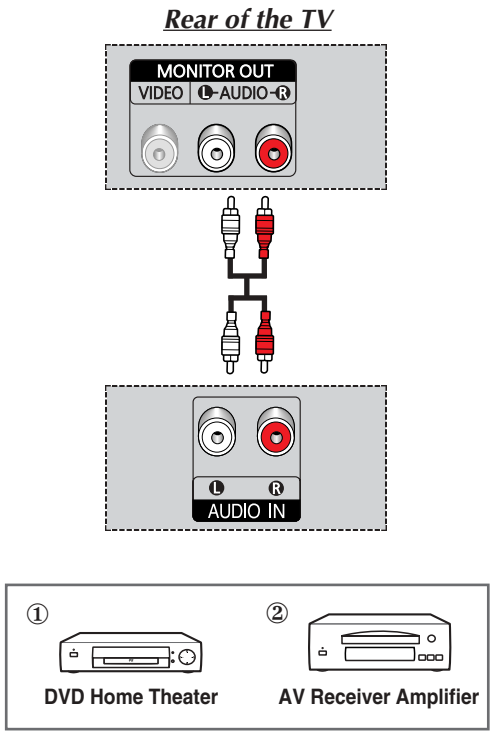


① The "**COMPONENT 1**" connectors are used for equipment with a DVD output. (480i,P/576i,P/720P/1080i)

② The "**COMPONENT 2**" connectors are used for DTV receiver. (480i,P/576i,P/720P/1080i)

Connecting and Using the Home Theater System

Use the Monitor Out ports of the PDP for Home Theater System Connections.



Connecting the Home Theater System

① Connect the monitoring audio out L, and R jacks of the MONITOR OUT on the rear-side connection panel of the PDP TV to the AUDIO IN jacks of the DVD Home Theater System (or AV Receiver) using the audio cable.

② Press the **SOURCE** button to select the desired external device connected to the PDP TV.

③ If you want to hear the sound through separate speakers, cancel the internal amplifier.

- Refer to corresponding user's manual from the manufacturer for wiring the speakers to the DVD Home Theater System (or AV Receiver).
- Disable the PDP TV internal speaker to enjoy the rich sound through the speakers of your Home Theater System.
- In this case, enjoy the sound from the Home Theater System while the PDP TV does not produce the audio.

To Display the DVD Home Theater

① Turn the PDP on and press the **SOURCE** button to select the **AV1** (or **AV2**, **AV3**, **Component1**, **Component2**).

② Be sure to connect the video cable properly if desired external input (**AV1**, **AV2**, **AV3**, **Component1**, or **Component2**) cannot be selected.

③ Play the DVD after activating the DVD Home Theater System.

④ Use the volume control of the Home Theater System while watching the PDP using the DVD Home Theater, where the PDP TV does not produce the audio.

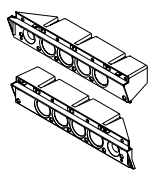
Installing the Speakers

➢ This speaker installation guide is for the 5040 Model.

Parts

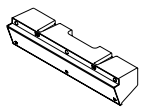
The actual product may differ slightly from the illustration.

Speakers



2 EA

Middle Cabinet (Wall Mount Only)

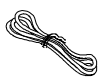


1 EA

Speaker Dust Cover

1 EA

Speaker Cable

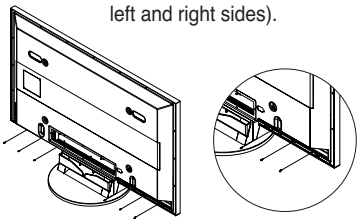


Screws

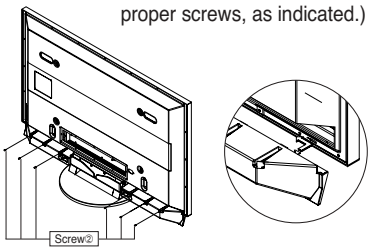
Screw① : 2EA **Screw② : 6EA**

How to Assemble the Speakers(Standing)

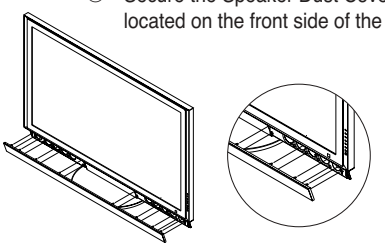
① Remove the screws indicated on the rear of the PDP (6 screws on the left and right sides).



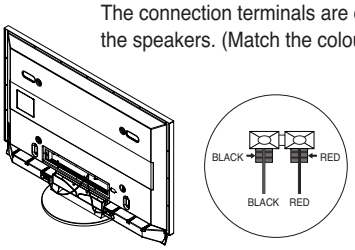
② Set the Speaker Guide Bracket into the square grooves located on either side of the PDP's bottom rear then push the Speaker Guide Bracket towards the center (as the arrow illustrates). Secure the Speaker Guide Bracket with provided screws ②. (Always use the proper screws, as indicated.)



③ Secure the Speaker Dust Cover by setting it into the grooves located on the front side of the speakers.



④ Connect the speakers to the PDP using the speaker cable. The connection terminals are on the rear side of both the PDP and the speakers. (Match the colour coded terminals and cables.)



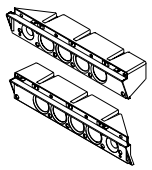
WARNING

1. When moving the PDP with the speakers attached, be sure to hold on to the PDP to prevent damage. (Damage may occur to the speaker connecting brackets or the speakers.)
2. Speakers of 8Ω Impedance, 15W Nom. Power, 30W Max. Power is recommended.

Parts

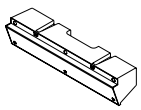
The actual product may differ slightly from the illustration.

Speakers



2 EA

Middle Cabinet (Wall Mount Only)

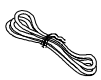


1 EA

Speaker Dust Cover

1 EA

Speaker Cable

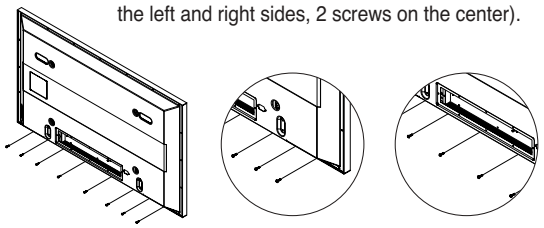


Screws

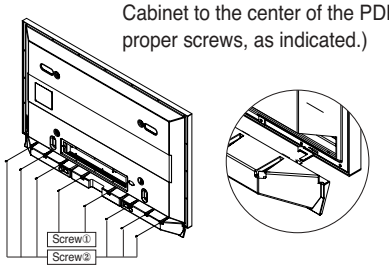
Screw① : 2EA **Screw② : 6EA**

How to Assemble the Speakers(Wall Mount)

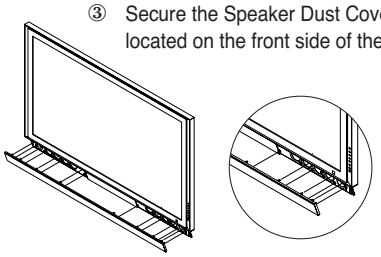
① Remove the screws indicated on the rear of the PDP (6 screws on the left and right sides, 2 screws on the center).



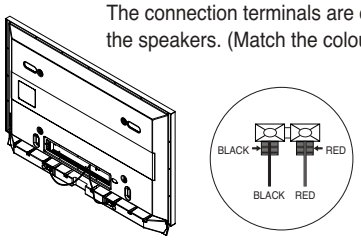
② Set the Speaker Guide Bracket into the square grooves located on either side of the PDP's bottom rear then push the Speaker Guide Bracket towards the center (as the arrow illustrates). Secure the Speaker Guide Bracket with provided screws ②.Secure the Middle Cabinet to the center of the PDP with a screw ①. (Always use the proper screws, as indicated.)



③ Secure the Speaker Dust Cover by setting it into the grooves located on the front side of the speakers.



④ Connect the speakers to the PDP using the speaker cable. The connection terminals are on the rear side of both the PDP and the speakers. (Match the colour coded terminals and cables.)



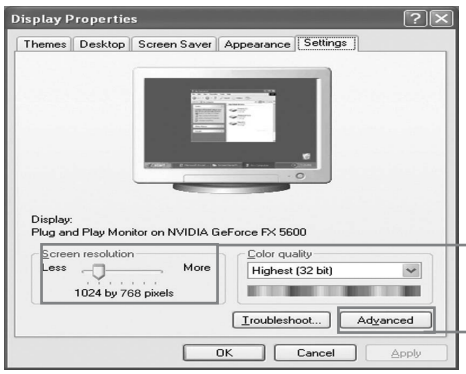
WARNING

1. When moving the PDP with the speakers attached, be sure to hold on to the PDP to prevent damage. (Damage may occur to the speaker connecting brackets or the speakers.)
2. Speakers of 8Ω Impedance, 15W Nom. Power, 30W Max. Power is recommended.

Setting up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 Right click the mouse on the Windows Desktop, then click on Properties. The **Display Dialog-Box** will be displayed.

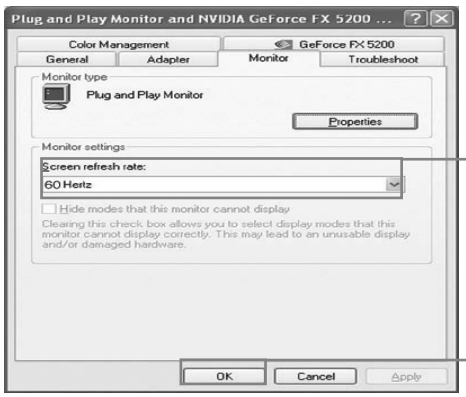


2 Click on **Settings**, then set the **Display Mode** with reference to the Display Modes Table. You do not need to change the **Colours** settings.

3 Click on **Advanced**. A new settings dialog box will be displayed.

4 Click on the **Monitor** tab, then set the **Screen Refresh Rate** with reference to the Display Modes Table. Set the **Vertical Frequency** and **Horizontal Frequency** individually if you can do so instead of setting the **Screen Refresh Rate**.

5 Press the **OK** button, close the window, then press the **OK** button on the **Display Registration Information** window. Automatic re-booting may commence at this moment.



6 Shutdown the PC, and connect it to your TV. (See page 57)

➢
- The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
- When you use your TV as a PC monitor, it supports Colours up to 32 bits.
- In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
- When connecting a PC (including the DVI connection), you must set it to the display settings that are supported by the TV. Otherwise, the message **Out of input range** will be displayed.

Input Mode (PC/DVI)

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Video Signal	Resolution (Dot X Line)	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Vertical Polarity	Horizontal Polarity
IBM PC / AT Compatible	720 X 400	70.087	31.469	P	N
	640 X 480	59.940	31.469	N	N
		72.809	37.861	N	N
		75.000	37.5	N	N
		85.008	43.269	N	N
	800 X 600	56.250	35.156	N/P	N/P
		60.317	37.897	P	P
		72.188	48.077	P	P
		75.000	46.875	P	P
		85.061	53.674	P	P
	1024 X 768	60.004	48.363	N	N
		70.069	56.476	N	N
		75.029	60.023	P	P
		84.997	68.677	P	P
	1280 X 1024	60.020	63.981	P	P

(N: Negative / P: Positive)

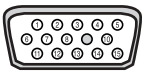
- The interlace mode is not supported.
- The television might operate abnormally if a non-standard video format is selected.
- "**1280 x 1024**" is not available in DVI mode.

Notes

- The PC text quality for **PS-50P4H1** is optimum in **XGA** mode (1024 x 768@60Hz).
- When this television is used as a PC display, 32-bit colour is supported.
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a television.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.3kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the **SOURCE** button to enter the Video mode. Also, make sure that the PC is connected.
- When connecting a notebook PC to the television, make sure that the PC screen is displayed through only the television (Otherwise, random signals might appear).
- When horizontal synchronous signals seem irregular in PC mode, check PC power saving mode or cable connections.
- The Display Settings Table above complies to the IBM/VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60Hz.

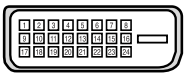
Pin Configurations

PC Input Connector (15Pin)



Pin	PC IN
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)

DVI Input Connector (24Pin)



Pin	Signal
1	T.M.D.S. Data2-
2	T.M.D.S. Data2+
3	T.M.D.S. Data2/4 Shield
4	T.M.D.S. Data4-
5	T.M.D.S. Data4+
6	Clock (DDC)
7	Data (DDC)
8	Not Connected
9	T.M.D.S. Data1-
10	T.M.D.S. Data1+
11	T.M.D.S. Data1/3 Shield
12	T.M.D.S. Data3-
13	T.M.D.S. Data3+
14	+5V Power
15	5V Grounding
16	Hot Plug Detect
17	T.M.D.S. Data0-
18	T.M.D.S. Data0+
19	T.M.D.S. Data0/5 Shield
20	T.M.D.S. Data5-
21	T.M.D.S. Data5+
22	T.M.D.S. Clock Shield
23	T.M.D.S. Clock+
24	T.M.D.S. Clock-

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the " **I** " button (On/Off) and the **POWER** ( ) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the volume **MUTE** ( ) button on the remote control has been pressed.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the television, then move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.

Cable Box Codes

Anvision	015,016	Pioneer	026,028,052
Cable star	015,016	Randtek	015,016
Eagle	015,016	RCA	008,035,074
Eastrm Int.		Regal	011,020,021
General	054	Regency	010,041
Instrument	012,013,023,031,032,	SA	
GI	033,038,044,075,076,077	Samsung	000,011,030,052,071,072
	011,012,020,021,042,056	Signature	054
Hamlin	045,051,054	Sprucer	035
Hitachi	012,013,023,031,032,033,038,044,054,07	Starcom	054
Jerrold	0,073	Stargate 2000	066
Macom	045,051	Sylvania	019,067
Magnavox	015,016,027,029,034,036,037,040,041,	Texscan	019,067
	048,049	Tocom	025,029,057,058,063
NSC	017	Unika	039,040,049
Oak	024,046	Universal	059,060
Osk Sigma	024	Viewstar	015,016,027,029,034,036,037,040,041,
Panasonic	011,035,047,069		048,049
Philips	015,016,027,029,034,036,037,040,041,	Warner Amex	052
	048,049	Zenith	022,050,065,069

DVD Codes

Philips	007	Panasonic	006
Proscan	008	Sony	004
RCA	008	Samsung	000
Toshiba	002		

Remote Control Codes

VCR Codes

Admiral	015,088	MTC	016,024
Aiwa	024	Multitech	016,024,040,041
Audio Dynamics	022,025	NEC	011,023,025,039,055,070,073
Bell&Howell	011	Optimus	015
Broksonic	019	Panasonic	017,062,084,086
Candle	016,018,022,054,055,061	Pentax	014,044
Canon	017,062	Pentex Reserch+	055
Citizen	016,018,022,054,055,061	Philco	017,038,062,065
Colortyme	023	Philips	017,038
Craig	016,021	Pioneer	014,025,042,059
Curtis-Mathes	009,016,017,023,024,055,062,073,076	Portland	053,054,061
Daewoo	003,004,005,006,007,008,022,054,085	ProScan	009
DBX		Quartz	011
Dimensia	009	Quasar	017,053
Dynatech	024	Radio Shack/Realistics	011,015,017,018,021,
Electrohome	036		024,028,036,052,062
Emerson	017,018,019,022,024,029,032,036,043,	RCA	009,014,016,017,037,044,046,063,078
	050,051,056,058,066,071,074,076,077,079	Samsung	000,016,022,031,041,051
Fisher	011,021,027,028,052,057,067	Sansui	025
Funai	024	Sanyo	011,021
GE		Scott	022,050,058,077
Go Video	016	Sears	011,014,018,021,027,028,044,052,057
Harman Kardon	023	Sharp	015,036,048,054
Hitach	014,024,044,045	Shintom	026,035,040,064
Instant Replay	017	Signature	024
JC Penny	011,014,016,017,023,025,039,044,060,062	Sony	026,035,047
JCL	011,017,023,025,039,055	Sylvania	017,024,038,062,065
JVC		Symphonic	024
kenwood	011,023,025,039,055	Tandy	011,024
KLH	082	Tashiko	
LG	001,002,007	Tatung	039
Lloyd	024	Teac	024,039,078
Logik	040	Technics	017
LXI	024	Temika	
Magnavox	017,038,062,065	TMK	076
Marantz	011,017,023,025,038,039,055,070	Toshiba	014,022,028,057,058
Marta		Totevision	016,018
MEI		Unitech	
Memorex		Vector Research	
MGA		Victor	
Midland		Video Concepts	
Minota		Videosonic	
Mitsubishi		Wards	
Montgomery ward		Yamaha	
		Zenith	

– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

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